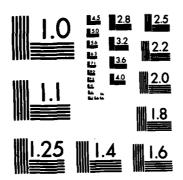
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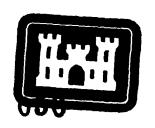
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December 1982

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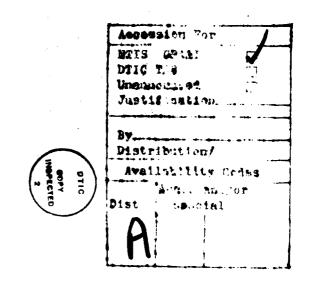
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ABSTRACT

This document presents the results of an eleven month water quality study in Lake Seminole located partially within each of three states: Georgia, Florida, and Alabama. Meteorological, hydrological, sediment and physical, chemical and biological water quality data were obtained at a total of 19 main stations in Lake Seminole, the Chattahoochee, Flint, and Apalachicola Rivers, Spring Creek, and Fish Pond Drain during 7 sampling cycles from February through December, 1979 of Phase II. Limited sampling and analysis were also performed at 5 special sites. Sampling and analytical methodologies are summarized and a brief review and analysis of the findings are presented, including identification of major water quality problems and recommendations for future studies. Comparisons are also made to data collected during Phase I (April through November, 1978) of this study (For complete Phase I data see U.S.A.C.O.E., 1981). The detailed results of Phase II are included in attached appendices. Selected data were submitted to the EPA's STORET System.

OBJECTIVES

The overall objectives of the Lake Seminole Water Quality Management Study were to a) establish base line conditions for future comparisons; b) identify water quality-environmental problems; c) collect data to allow guidance for reservoir control-discharge water quality relationships; and d) collect data that will provide conditions to facilitate coordination with state agencies to implement watershed pollution control.

Those objectives were met by taking samples for physical, chemical and biological parameters in Lake Seminole and it major tributaries, the Chattahoochee River, and the Flint River as well the lake's outfall, the Apalachicola River. The samples were analyz using standard analytical techniques, and the selected data gene Environmental Protection Agency's (EPA) Data Stor and Retrieval (STORET) system.

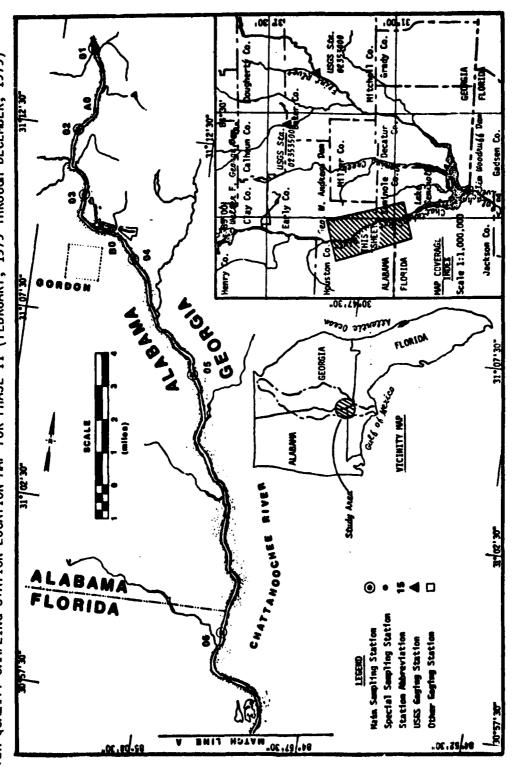
INTRODUCTION

Jim Woodruff Lock and Dam is located on the Apalachicola River at Mile 107.6 (173.2 km.), about 305 meters downstream from the point where the Flint and Chattahoochee Rivers unite to form the Apalachicola River. The structure is an earthfill dam with a concrete fixed crest spillway, a center channel spillway with 16 vertical lift gates 12.2 m long and 9.3 m high and a side channel navigation lock 25 m wide. The dam crosses the Florida-Georgia border with about 457 meters of the overflow dike being located in Dacatur County, Georgia, and the remainder of the structure being in Gadsden and Jackson Counties, Florida. The primary purposes of the structure are to aid navigation in the Chattahoochee River upstream to the George W. Andrews Lock and Dam at Mile 47 (76 km.), in the Flint River to Bainbridge, GA about 48 km. upstream and downstream in the Apalachicola River, and to generate electric power. Other stated benefits include the regulation of streamflows, public recreation and fish and wildlife conservation. Construction of the project was initiated in September, 1947. The lock was opened for navigation, and impounding of water in the reservoir was begun in May, 1954. The power plant was placed in operation and the pool was considered full when it reach elevation 77 ft. (23 m) msl in February, 1957 (USACOE, 1972).

Lake Seminole, formed b, the impoundment behind the Jim Woodruff Dam, is located partially within each of three states: Georgia, Florida, and Alabama as shown in Figure 1. The reservoir has a total drainage basin area upstream of the dam of 44,630 sq. km., of which approximately 51 percent is tributary to the Chattahoochee River and 49 percent tributary to the Flint River. The reservoir consists of two major impoundment arms, the Flint and Chattahoochee, and two minor impoundment arms, Fish Pond Drain and Spring Creek, both of which are tributary to the Flint River Impoundment. The reservoir has a surface area of 152 sq. km. and a total volume of 439 million cubic meters at the normal pool elevation of 77.0 feet (23 m) msl. The pool extends up the Chattahoochee River 75.2 km. to the George W. Andrews Lock and Dam and up the Flint River 76 km. (USACOE, 1972).

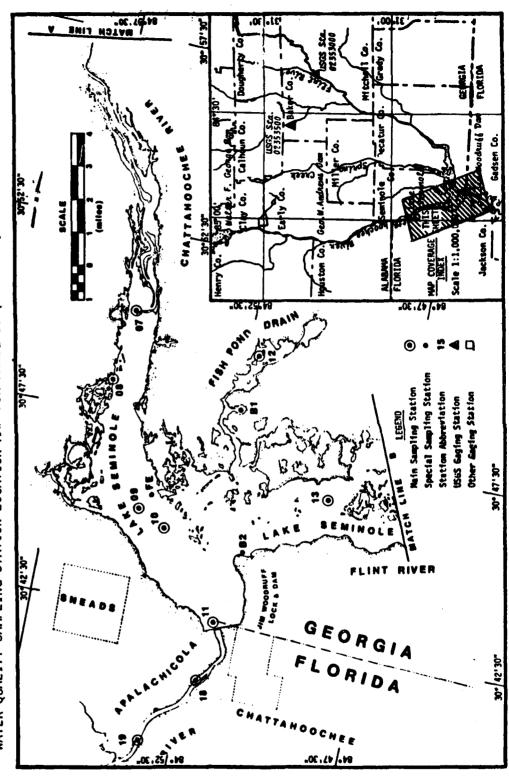
The Flint River has a total length of approximately 560 km. and a total drainage basin area of some 21,900 sq. km. The basin extends about 346 km. from north to south and averages roughly 64 km. in width. The headwaters of the Flint River are in the hilly region of the Piedmont Province, in the vicinity of the Atlanta Airport at an elevation of approximately 305 m. Seventy miles downstream from its source the river flows through the Pine Mountain District of the Greenville Plateau. The river through this stretch descends at a rate of approximately 0.04 percent up to the Fall Line at Flint River Mile 286 (460 km.). At the Fall Line the river drops rapidly over a shoal, and for 64 km. downstream. Downstream of Flint River Mile 220 (354 km.) the river flows

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) FIGURE 1

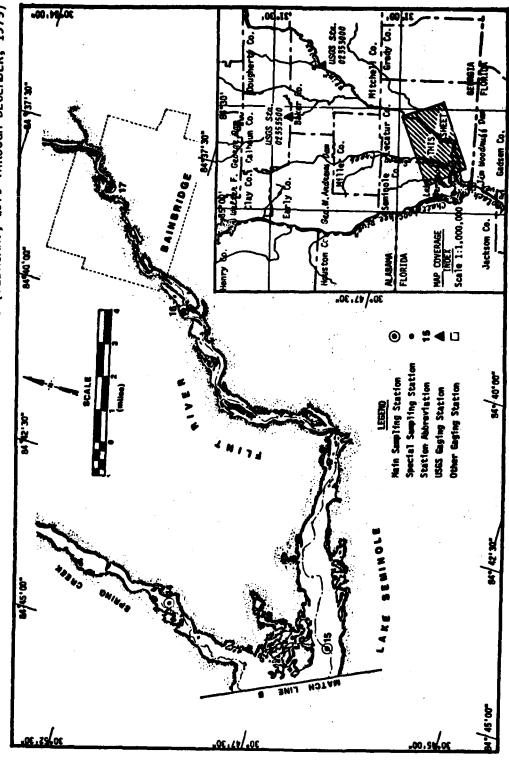


LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) FIGURE 1 (continued)

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LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY SAMPLING STATION LOCATION MAP FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) FIGURE 1 (continued)



through the Upper Coastal Plain of southwest Georgia until it joins the Chattahoochee River in the Lake Seminole impoundment (USACOE, 1976).

The average annual flow in the Flint River at Newton, Georgia (see Figure 1, insert) for the period of record 1938-1950 and 1956-1973 is 202 m³/sec, with a minimum flow of 22.4 m³/sec which occurred on both Oct. 20, and Nov. 10, 1940 and a maximum flow of 1870 m³/sec which was recorded on March 9, 1966 (USGS, 1979).

The Chattahoochee River has a total length of approximately 1200 km. and a total drainage basin area of 22,700 sq. km. The basin extends about 410 km. from north to south. The headwaters of the Chattahoochee River are in the rugged, wooded Blue Ridge Mountains of Northern Georgia. Downstream from this area the river flows through the hills of the Piedmont Province which range in elevation from 366 m in the foothills of the Appalachian Mountains to approximately 183 m at the Fall Line. Downstream of the Fall Line the river flows through the Upper Coastal Plain until it joins the Flint River in the Lake Seminole Impoundment.

The Walter F. George Lock and Dam, located upstream of the Lake Seminole Impoundment on the Chattahoochee River at Mile 75 (121 km.) is operated as a peaking power plant and as a result there is considerable short term flow variation through the Chattahoochee River Impoundment of Lake Seminole. The average annual flow at Walter F. George Lock and Dam near Columbus, GA (see Figure 1, insert) for the period of record 1929-1978 is 192 m³/sec, with a minimum flow of 8.3 cfs which occurred on Oct. 23, and Nov. 14, 1931 and a maximum flow of 4110 m³/sec which occurred on Feb. 26, 1961 (USGS, 1979).

The Apalachicola River, now formed by the discharge from Jim Woodruff Dam, was originally formed by the confluence of the Flint and Chattahoochee Rivers in the extreme southwest corner of Georgia. The river is bounded on both banks by wetlands except for the upper 40 km. stretch which is bounded on the east by the Apalachicola River Bluff formation. The Mariana Lowlands extend from the western bank of the Apalachicola westward past the border of the basin and south to the Western Highlands which cut across the middle-western portion of the basin. The Tallahassee Hills occur on the eastern side of the Apalachicola from the Georgia border southward to the Coastal Lowlands. The Coastal Lowlands comprise the entire lower portion of the basin.

The river below Jim Woodruff dam decends at a rate of approximately 0.009 percent. The power plant at the Jim Woodruff Dam is a "run of the river" plant which operates around the clock except when occasional high flows reduce the available operating head causing the plant to be non-productive. There is no flood control storage available in the reservoir (USACOE, 1972). The average annual flow at the dam is 635.8 m³/sec for the period of record Oct., 1928 to 1977, with a minimum flow of 140 m³/sec which occurred Oct. 27, 1954 and a

maximum discharge of 8300 \rm{m}^3/\rm{sec} which occurred on March 20, 1929 (USGS, 1978).

METHODS AND TECHNIQUES

Field Procedures

Sampling Site Locations

Sample site locations were specified by the U.S. Army Corps of Engineers (USACOE), Mobile District. The classification of sampling stations for the purpose of specifying field measurement, sediment and/or Corbicula sampling procedures was based in part on the total width of the cross section, the accessibility and submergence of the overbank areas as well as the inundation of the natural levees at normal pool stage. The sampling sites are shown on Figure 1, and their locations and their classifications as to river or lake station are tabulated in Table 1.

Sampling and Analytical Methodology

A complete sampling schedule showing the parameters sampled and sampling dates is shown in Table 2. A summary of the station parameter sampling schedule is shown in Table 3. A summary of the sampling methodologies, including respective maximum allowable holding times, sample container and preservation techniques as well as analytical methodologies employed and reported detection limits for the water quality parameters sampled during the course of this study can be found in Table 4.

Field Measurements

Dissolved oxygen (D.O.), pH, temperature, and specific conductance were measured at each station, one meter below the surface during every sampling cycle. To define the extent of the mixing within the river, D.O., pH, specific conductance and temperature were also sampled at depths of 0.33 meter below the surface and 1.0 meter above the river bed at midstream and within the littoral zone of both river banks at river stations 01 thru 07, 12, 14, 16, 17, 18 and 19 during the first and fourth sampling cycles (2/19-22/1979 and 7/16-19/1979). More extensive sampling including the measurement of Oxidation-Reduction Potential (ORP) at stations 7, 11 and 15 was performed during cycle 4 (7/16-19/1979) in order to develop complete cross sectional isopleths for these parameters. To define stratification, D.O., pH, specific conductance, temperature and ORP were vertically profiled at stations 07, 08, 09, 10, 11, 13 and 15 during all sampling cycles. Secchi disc and 1% light transmission measurements were also measured in situ at each station.

The field instruments used to sample the <u>in situ</u> parameters are listed in Table 4.

TABLE 1

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SAMPLING STATION NAME, STORET CODE, LOCATION, TYPE AND DESCRIPTION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Statio	Station Name	Location	Туре	Description
Abbrev.	STORET			
6	131.501	Chattahoochee River MP 45.5	River	Chattahoochee River, 1.2 miles (1.9 km) downstream of the George W.
8	131,502	Chattahoochee River MP 42.6	River	Chattabochee River, 1.4 miles (2.25 km) downstream of power plant,
8	131.503	Chattahoochee River MP 40.3	River	Chattahonchee River, 0.4 miles (0.64 km) upstream of Great Northern
3	131.504	Chattahoochee Piver MP 37.5	River	Paper Mill dock Chattahocchee River, 0.3 miles (0.48 km) upstream of Gordon Landing
Ę,	131.505	Chattahoochee River MP 33.3	River	Doot ramp Chattahoochee River, 0.3 miles (0.48 km) upstream of Navy Yard Landing
36	131.506	Chattahoochee River MP 25.0 Chattahoochee River MP 11.0	River	Chattahoochee River, 1.1 miles (1.77 km) upstream of May. 91 bridge Chattahoochee River, 3.2 miles (5.15 km) downstream of channel to
8	121.508	Chattahoochee River 0.2 mile SW MP 9.1	Lake	Parramore Landing Chattahoochee River O.2 miles (0.32 km) southwest of milepoint 9.1;
8	131.509	Lake Seminole-Chattahoochee River Impoundment NUM 4.8	Lake	out of main channel Lake Seminole - Chattahoochee River Impoundment, 1.0 miles (1.61 km)
2	121510	Lake Seminole-Chattahoochee River Impoundment CAN 3.9	Lake	northeast of the inree Rivers State Park Doat ramp Lake Seminole - Chattahoochee River impoundment, 15 miles (2.41 km)
=	121.511	Lake Seminole-Chattahoochee River Impoundment MUN 0.6	Lake	out of the main channel Lake Seminole - Chattahoochee River Impoundment, 0.6 miles (0.97 km)
. 21	131512	Lake Seminole-Fish Pond Drain Impoundment	River	Invitrient three or inter one moderate of the miles (1.6 km) Lake Seminole - Fish Pond Drain Impoundment Arm, 1.8 miles (1.6 km) northeast of the Georgia SR 253 bridge. River mile index mileage
<u> </u>	131213	Lake Seminole-Flint River Impoundment CAN 5.5	Lake	to confluence with the Fint River is estimated along the original stream channel. It have seminole - Fint River Impoundment, 0.6 miles (0.97 km) north of the Flint River Park boat ramp; 100 meters north of can 5.5, out
±	131.514	Lake Seminole-Spring Creek Impoundment SM SR 253	River	or main channel Lako Seminole - Spring Creek Impoundment, 2.0 miles (3.22 km) south southwest of the Georgia SR 253 bridge. River mile index mileage to confluence with the Fint River is estimated along the original stream
15	131515	Lake Seminole-flint River Impoundment MP 9.4	Lake	channel Lake Seminole - Flint River Impoundment, 1.8 miles (2.9 km) west of Hutchinson's Ferry Landing boat ramp

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SAMPLING STATION NAME, STORET CODE, LOCATION, TYPE AND DESCRIPTION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) TABLE 1 (continued)

•

Stati	Station Name	Location	Type	Description
Abbrev.	STURET		-	
3.7	131,516	Flint River MP 24.0 Flint River MP 29.0	River	Flint River, 0.5 miles (0.97 km) upstream of Fourmile Creek confluence Flint River, 0.5 miles (0.8 km) upstream of Atlantic Coast Line RR
e:	121518	Apalachicola River NUN 104.4	River	Dridge (northermost bridge in beinbridge) Apalachicola River, 0.4 miles (0.4 km) downstream of Louisville \$ Not in the contract of the contrac
19	121519	Apalachicola River MP 101.5	River	Nashirie Kalifoad Driuge, mum 104.4 Apalachicola Aiver, 100 meters downstream of southernmost power
2 22	13L SA0 13L SB0	Chattahorchee River MP 43.4 Chattahoochee River MP 36.2	River	Chattahoochee River, 0.6 miles (0.97 km) downstream of power plant Chattahoochee River, 100 meters downstream of Great Morthern Paper
<u>8</u>	131.581	Lake Seminole-Seminole State Park Beach	River	Lake Seminole - Fish Pond Drain Impoundment Arm, 30 meters south of beach Seminole - State Park. River mile index mileage to the confluence with the Flint River is estimated along the original stream
8	131.582	Lake Seminole-Chattahoochee Park Beach	Lake	channel case Seminole-Flint River Impoundment, 50 meters west of the boat ramp
12	13LSFE	Lake Seminole-Chattahoochee River Impoundment NUM 5.2	River	at out Lindocker raik Like Seminole - Chattahoochee River Impoundment, 0.8 miles (1.29 km) northeast of RUN 5.2; out of the main channel

TABLE 2

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
WATER QUALITY PARAMETER SAMPLING SCHEDULE FOR PHASE II
(FEBRUARY, 1979 THROUGH DECEMBER, 1979)

			mpling (
Parameter	1	2	3	4	5	6	7
r ar and re.				s (1979)			
	2/19-22	4/2-4	6/4-6	7/16-19	8/13-16	9/24-26	12/3-6
Meterological Data				·			
Air Temperature	X	X	X	X	X	X	X
Cloud Cover	X	X	X	X	X	X	X
Wind Velocity Wind Direction	X X X	Ŷ	Î	XXX	X	X	X
I. Mater Quality Sampling		•	•	•			•
<u>Hydrological Data</u>							
Total Depth	X	X	X	X	×	X	X
Stream Velocity	X	x	X	X	x	x	X
Wave Height	<u> </u>	X	X	X	X	X	X
Current Speed Current Direction	XXX	X	X	XXX	X	X	ž
Physical Data		^	^	^	^	^	^
	·				}		
Hiscellaneous							
Cross-Section Loc	X	X	X	x	X	l x	X
Sample Depth	X	X	X	X	X	X X	X
Secchi Disk Transparency	XXX	X	Ž.		X	X	X
Depth of 1% Surface Light	X	X	X	X	X	X	X
Field Measurements				· .	<u> </u>		
Hater Temperature	X	X	X	X	X	X	X
Specific Conductance	X	X	l X	X	X	. <u>X</u>	X
Oxidation Reduction Potential Dissolved Oxygen, Electrode	X X X	X	X X	X X X	i X	X	X
pH convergent oxygen, electrode	â	X	Â	X	X	, ž	X
Laboratory Data							
Color		l x	l x	l x	l .	, ,	X
Turbidity, Hach Turbidimeter	X X X	Х.	X	ı x	X	X	X
Total Filterable Residue	X	X	X	X	Į X		X
Total Monfilterable Residue	l x	X	X	X	×	X	X
Chemical Deta					l		
Minerals and Metals					1		
Alkalinity	X I	x	x	x	x	x	x
Chloride	1 1	l _ :	I _	١ .	X	l _	X
Sulfate, Dissolved Sulfide, Tutal	X	×	X	X	X	l X	X
SALLIGAT ICCUI		ľ	l ^	. *	 ^	, x	

TABLE 2 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

		Sa	mpling C	wc1e			
	1	2	3	4	5	6	7
Paremeter .		Sampl	ing Date	s (1979)			
	2/19-22	4/2-4	6/4-6	7/16-19	8/13-16	9/24-26	12/3-6
Chemical Data							
Minerals and Metals							
Calcium, Total	X				X		
Hardness, Total Iron, Dissolved	X	X	x	X	l Ç	x	X
Iron, Utssolved	X X X X X	Î	l û	lî	X	, x	Ϊ
Magnesium, Total	l â	l "		,	X	ł	
Manganese, Dissolved	L X	X	X	l x	X	X	X
Manganese, Total	X	· X	X	X	X	X	X
Potassium, Total	i :		1	1		1	🕯
Sodium, Total Zinc, Total	l â	l x	l x	l x	l î	l x	l ĝ
<u>Nutrients</u>							
Carbon, Dissolved Organic	X	×	X	X	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	X.	X
Carbon, Total Organic Carbon Dioxide	l â	Î	1 2	X	Î	1 2	Î Î
Nitrogen. Total Ammonia	Î	l x	X	l x	l x	X	XXXXXX
Nitrogen, Nitrate + Nitrite	X X X X	X	X	1 X	X		X
Mitrogen, Total Inorganic	Į X	X	X	X	X	X	1 5
Mitrogen, Total Kjeldahi	i X		Į.	i	1 %	1	1 2
Mitrogen, Total Organic		l .	Į.	Į.	;	1	l î
Nitrogen, Total Orthophosphate, Dissolved	I Ç	X	×	l x	Î	i x	X
Phosphorus, Total	î	î) x	Į ž	Ř	Ϊ	X
<u>Biological Data</u>							1
Bacteriological Data						ł	
Fecal Coliform	l x	1	X	Ä	X	, X	l X
Fecal Streptococci	X		X	X	X	X	X
FC/FS Ratio	×		^	1	1	1	
II. Sediment Sampling							
Mechanical Data		1		}	.		}
Sieve Analysis Hydrometer Analysis					X		
Physical & Chemical Data							Į.
Physical Data					1		
Volatile Solids					X		

TABLE 2 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

		Sa	mpling C	ycle			
Parameter	1	2	3	4	5	6	7
			ing Date	s (1979)			
	2/19-22	4/2-4	6/4-6	7/16-19	8/13-16	9/24-26	12/3-6
Physical & Chemical Data (continu	ed)						
Miscellaneous Chemical Data							·
Carbon, Organic Mitrogen, Total Kjeldahl Oil & Grease Phosphorus, Total				,	XXX		
Heavy Metals		1					,
Arsenic Cadmium Chromium Copper Iron Lead Henganese Hercury Nickel Zinc			,	•	X X X X X X X		
III. Corbicula Tissue Analysis							
Physical & Chemical Data	ŀ					1	
Heavy Metals							
Arsenic Cadmium Chromium Lead Mercury Selenium Zinc	X X X X X				X X X X X		
Chlorinated Hydrocarhons Aldrin Aroclor 1242 Aroclor 1254 Aroclor 1260 BHC-Alpha Isomer BHC-Beta Isomer BHC-Gamma Isomer Chlordane P.P' DDD P.P' DDE D.P' DDT P.P' DOT Dieldrin Endosulfan Sulfate Heptachlor Heptachlor Heptachlor Hirex PCB Pantachlorophenol Toxaphene	******************				***************************************		

TABLE 2 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER QUALITY PARAMETER SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

		_					
1	<u> </u>		mpling (
Parameter	1	2	3	4	5	6	1
				es (1979)			
	2/19-22	4/2-4	6/4-6	7/16-19	8/13-16	9/24-26	12/3-6
IV. Biological Data (Composite Samples	ì		Į.	l	l		
Algel Growth Potential (Sefore an	d After	<u>Autoclaví</u>	ng)		ļ	•	
Nitrogen, Total Ammonia Nitrogen, Total Kjeldahl Nitrogen, Nitrate + Nitrite Orthophosphate, Dissolved Phosphorus, Total pH, Lab Specific Conductance		XXXXXX		X X X X		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	·
Algal Counts							
12-fey Count 12-Day Count, Std. Dev. 14-Day Avg. Count 14-Day Count, Std. Dev.		X X X		XXXX		XXXX	
Biomess Measurements							
Benthic					٠		
Biomess, Benthic	X	x	X	X	X	X	x
<u>Euphotic Zone</u>] .				
ATP-Adenosine Triphosphate Biomass, Plankton Chlorophyll-a Chlorophy;:- <u>b</u> Chlorophyll- <u>c</u>	XXXX	X X X	XXXX	X X X	X X X X	X X X X	XXXX
<u>Mecroinvertebrates</u>							
Benthic Hester Dendy (P=Placed; R=Retrieved)	X P	X R	X P	R	X P	R	X
<u>Plankton</u> Phytoplankton	x	x	x	x	x	x	x
Zooplankton	X	X	X	X	X	X	X

TABLE 3

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY STATION SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	Parameters ¹	ā	8	a	2	` ¥	€ €	P. Cart	G 5	Jfng S	(A) Main Sampling Stations	Į.	1 661	_	8	_	2	-	9	601
		;	,	;	;	:	- 1	1	1		- 1					1	ı	1		
본 경 -:	"Mater Quality Data	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
3	Hydrological Data	*	×	*	×	×	×	×	×	×	×	×	*	×	×	×	×	*	×	×
cs.i	Physical Data	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	*	×	×
	Field "Pesurements 1. Surface (or Mid-Depth) 2. Surface (or Mid-Depth)	× 1	× :	* 1	× 3	× 1	* . :	*	×	×	*	×	. **	*	34 3	×	××	>>	» , *	>< >
	2. Martical Profile 3. Vertical Profile 4. Complete Cross-Sectional	×	×	×	~	.	×	××		×	*	× ×	4	×	∢ .	××	< −	٠.	∢ -	<
	Laboratory Data 1. Surface (or Mid-Depth) 2. Bottom5	×	*	×	×	*	*	××	×	**	**	* *	×	**	×	××	×	×	×	24
J.	Chemical Date 1. Surface (or Hid-Depth) 2. Rottom ⁵	×	×	×	×	*	×	××	*	**	××	* *	×	**	×	. **	×	×	. *	×
æ'	Rinlegical Data ⁶ (Bacteria)	*	×	*	×	×	×	*	*	*	×	×	*	*	×	*	×	×	×	×
::	Sediment Sampling	*	×	*	×	×	×	*	×	×	×	×	×	×	×	*	×	×	×	×
) H	Corticula	×		×	×				×			×	×		×	×	*	•		*

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY STATION SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Parageters 1] ;			ter (n Samp	£ gw £	(A) Hain Sampling Stations				1		:	!	:
	10	05	03	ž	8	90	07	08	9 10	=	12	13	7	5	91	71	18	13
IV. Biological Data (Composite					ţ													
Alnal Growth Potential						×	×	*	×	×	×	×	×	*	×		×	
Biomass Reasurements	×	×	×	×	×	×	×	×	~	×	×	×	×	×	×	×	×	×
Nacroinvertebrates	·=,																	
Benthic	×	×	×	×	×	×	×	×	~ ×	×	×	×	×	×	×	×	×	×
Hester Dendy	*	×	×	×	×	×	×		×	×	×	×	*	➤.	×		*	*
Benthic Diversity	×	×	×	×	×	×	×	×	×	× ~	×	×	×	×	×	×	×	×
Plankton	×	×	×	*	×	×	×	×	×	×	×	×	*	×	×	×	×	×
	(3)	(3) Special Stations	ial S	tatio	Su													
	φ V	8	Œ	22	۳,												ĺ	
Heterological Data	×	×	×	×	×												-	
I. Hater Quality Data																		
Mydrological Data	×	×	×	×	×											•		
Physical Data																		
Miscellaneous																		
Field Heasurements	×	×			٧.													
Laboratory Data	×	×			×													
Biological Data (Bacteria)			×	*														

TABLE 3 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUC STATION SAMPLING SCHEDULE FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

NOTES:

- See Table 2 for a Complete List of Parameters Sampled.
- Unless otherwise noted, taken at mid-stream one meter below water surface or at mid-depth where total depth was less than 10 ft.
- Unless otherwise noted, all parameters except ORP sampled 0.3 meters below water surface and 1 meter above bottom surface at mid-stream and left and right littoral zone during Cycles 1 (2/19-22/1979) and 4 (7/16-19/1979) only.
- 4. Originally scheduled to be sampled.
- Unless otherwise noted, taken 1 meter above bottom during Cycles 3 through 6 only. ۍ ک
- 6. Unless otherwise noted, taken 0.3 meters below water surface.
- Sampling at Station FE initiated during Phase I, Cycle 2 (6/5-7/1978).
- 8. Only Turbidity.

O

Pt-Co units FTU wmho/cm @ 25°C mg/l mg/l mg as CaCO₃/1 mg Cl/1 mg SO₄/1 ng S/f mg Ca/l mg as (a50₃/l mg Fe/l лтно/ст @25°C WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) std. umits Units **76**m Detection Limit .. (var.) 0.1 0.1 0.7 : : : : 122 #3, p. 36 #3, p. 295 Yellow Springs Instr. SCT meter, 33 #1, p. 93 #1, p. 94 Yellow Springs Instr. D.O. meter, 518 Yellow Springs Instr. SCT meter, 33 Photovolt pH meter, 126A & ORP #13, Secchi disk, 20 cm. Protomatic Instruments underwater photometer Yellow Springs Instr., U.O. neter, 518 Photovolt pH meter, Model 1269 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY Analytical Methodology #3, p. 82, 103 Calculated #3, p. 81, 110 #1, p. 278 #i, p. 304 #1, p. 496 #1, p. 499 4°C 2 ml 2N zinc acetate /1 HNO₃ to pH <2 Preservation Technique 4°C None required (in situ) 4°C Container ດຸດ ລັລ ດ໌ ດີດ တွင္တစ္တ လ်က်က်က် P, G : : 1 1 - [1 Holding 24 hrs 7 days 7 days 7 days 24 hrs 7 days 7 days 24 hrs Time None None None None 9 9 None None Water Quality Sampling Field Measurements Secchi Disk Transparency Depth of 1% Surface Light Turbidity Specific Conductance Total Filterable Residue Total Monfilterable Minerals and Metals Potential Dissolved Oxygen, Elec-Laboratory Data Miscellaneous Specific Conductance Oxidation Reduction Physical Data Sulfate, Dissolved Sulfide, Total Water Temperature Chemical Data Alkalinity, Total Calcium, Total Maruness, Total Iron, Dissolved Parameter Chloride STOKET Code 00077 00034 00000 00400 00076 00076 00095 00515 00530 000410 00940 00946 00745 00916 00900 01046 00299

0.050 0.1 0.03 0.010

\$1, 116 82, 143 82, 147 82, 155

mg Fe/1 mg Mg/1 mg Mn/1

0.050 0.1 0.050

#3, p. 82, 110 #3, p. 82, 114 #3, p. 81, 116

Filter on site, INO, to pH <2 HMO; to pH <2 HMO; to pH <2 Filter on site, INO, to pH <2 HMO; to pH <2

P, G

9

999

5 5 5

999

Magnesium, Total Manganese, Dissolved

ron, lotal

01045 00927 01056

5555

9999

Munganese, Total Potassium, Total Sodium, Total Zinc, Total

01055 07937 00929 01092

0.050

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY WATER DUALITY PARAMETER STORET CODES. MAXIMIM HOLDING TIMES PRESERVATION TECHNIQUES.

1979)													~~											lry weight		7. A. E.	ry wt.
MBER, 19	Units			mg C/1	mg C02/1	E L/N Gu	N 6	. E.	mg P/V	Ing P/1			MPN/100 ml MPN/100 ml											% total dry weight		gm C/kg dry wt. Hg N/kg dry wt.	mg F/kg d
PRESERVALION LECHNIQUES, 1979 THROUGH DECEMBER,	Detection Limit			2.0	: : 3	0.0	;	; ;	0.01	0.01			11				;	:	;	:	1			:		ر : . و 0. 6	0.7
~	Analytical Methodology			#3, p. 236	Calculated	#3, p. 159	Calculated	rs, p. 173 Calculated	Calculated #3, p. 256	#3, p. 249, 256			#1, p. 937 #1, p. 944				#4, 0 422-63	#4, D 422-63	f4, D 422-63	#1, D 422-63	#4, D 422-63			⁴ 5, p. 539		#6 #5, p. 469 #7, p. 42	:
LIMITS FOR PHASE II (FEBRUARY	Preservation Technique			4°C, H ₂ SO ₄ to pH <2		4°C, H2SO4 to pH <2	C, HC C4 03 H JeV	as ud on boczu in t	4°C, Filter on site	4°C, H ₂ SO ₄ to pH <2			4°C 4°C				None required	None required	None required	None require.	None required			J. #		4°C, H2SO, 4°C, H2SO, 4°C, H2SO, 4°C, H2SO, 4°C, H2SO,	4°C. 112504
PAKAMELEK SLUKET IGY AND DETECTION	Container	ned)		ດີດີ		. d.	٥	2	P, G	9°d			Sterilized Sterilized					۵	•	•	۵.			a .	rol	a. a.	
AND	Holding Time	pling (continued)		24 hrs 24 hrs	1 1 1	s pre	7 485.		24 hrs	7 days		퀽	8 hrs 8 hrs				:	;	}	;	:	ical Data		14 days	Chemical Data	14 days 14 days	14 days
WALEK QUALIT PAK ANALYTICAL METHODOLOGY	Parameter	I. Water Quality Sampling	Nutrients	Carbon, Dissolved Organic Carbon, Total Organic	Carbon Dioxide	Nitrogen, Nitrate +	Nitroyen, Total Inorganic Nitrose Total Kieldahl	Nitrogen, Total Organic	Nitrogen, lotal Orthophosphate,	Dissolved Phosphorus, Total	Biological Data	Bucteriological Data	Fecal Coliform Fecal Streptccocci	II. Sediment Sampling	Mechanical Data	Sieve Analysis	Bed Mtl (% Finer than	Bed Mtl (t finer than	Bed Ftl (" finer than	Bed Hel (" finer than	8cd fit1 (* finer than 2.0 mm)	Physical & Chemical	Physical Data	Volatile Solids	Miscellaneous Ches	Carbon, Organic Nitrogen, To al Kjeldahl Oil and Grease	Phosphorus. Total
ANAL	STORET Code			00681	00405	00630	00.00	0003	00671	9000			31616	•			80217	80216	89214	80213	80203					00687 00627 00457	69)(63

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY MATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES,

MBER, 1979)	Units			mg As/kg dry wt. mg Cd/kg dry wt.	Cr/kg dry	Cu/kg dry	Ph/kg dry	Ma/kg dry	Hg/kg dry	71/kg 25/kg		5	d'S	5		ug/kg dry wt.		Š	dr.		9	dr,		Š	đ.	d.		9	d.	Ą.				As/kg	Cd/kg wet	Pb/kg wet	Hg/kg wet	mg Se/kg wet wt. ng Zn/kg wet wt.
1979 THROUGH DECEMBER	Detection Limit			0.1		~;	N c) N	. ~ .	m		0.1		0.1	9.0		0.1	0.5	0.5	1.0	0.c	96.1	9.5	0.1	1.0	0.1	0.1	0.5	1.00	0.5				0.1	0.05	0.1	0.002	1.0
PHASE II (FEBRUARY,	Analytical Methodology			C. C.	c 00		ec e *a≥ *1	an ca	; co	& & & &		6	20	0.0	2	(D)		en on	64	5 0	n 0	64	6 °	2 0	0.04	6#	On (C		64	6#				ä		نه خ	ے.	#10, p. 30 #10, p. 30
LIMITS FOR	Preservation Technique			HNO3	HNO3	HIO3	HN03	HNO3	HN03	HIO3 HNO3		Freeze	Freeze	Freeze	Freeze Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze	Freeze Freeze	Freeze	Freeze				Freeze	freeze	Freeze	Freeze	Freeze
AND DETECTION	ng Container	딝		a . 0	۰.	. 🕰	6 . (a. 0	. 0.	a a		G	യ്യ	191	ى د	, ₍₂	، و	ی و	9	G (9 (2)	9	(5)	. 5 (.	. (9	5	.	ی و		_G				9	رو د	= c	. O	<u>ဖ</u> င့် ရဲရဲ
<u>≽</u>	Holding Time	ing (continued)	<u>.</u>							33	Hydrocarbons	J mo	26	•		E	OE .	6 6	- C	0E :	9 2	l mo		0 G		1 m	~ .	e e		1 30	sue Analysis	nemical Data	21	:	: :	: :	:	11
ANALYTICAL METHODOLO	Parameter	11. Sediment Sampling	Heavy Metals	Arsenic	Cadmium	Copper	Iron	Lead	Mercury	Nickel Zinc	Chlorinated Hyd	Aldrin	Aroclor 1242	Aroclor 1260	Benzene Hexachloride	BHC-Beta Isomer	BHC-Samer Isomer	Chlordane	0,00 '9,9	P, P, DDE	100	Dieldrin	Endothol	Endrin Cadein Aldohuda	Glyphosphate	Heptachlor	Heptachlor Epoxide	Methoxychior	Pentachlorophenol	Toxaphene	111. Corbicula Tissue	Physical & Chemic	Heavy Metals	Arsenic	Cadmium	Lead	Mercury	Selenium Zinc
ANALY	STURET Code			01003	01028	01043	01170	01052	71921	01068		39333	39499	39511	39343	34757		39351	39311	39321	39301	39383		39393	690 50	39413	39423	39-181	39061	39403				01004	71940	71936	/1930	71938

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES,
ANÁLYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	actories of the second	Time	Container	torbningo.	snalytical sethestalogy	1 imit	Units
	111. Gerbiguli lingue Analysis (continued)	Analysis (co	ntinued)				
	(h)crimited Hydroly	frocarhons					
39333	aldrin	- E	6, teflon lid wanned				
37.7	Tractor 1212	 E	in alweiner feil 6. teflen lif ungered	oil Freeze apred	*11	٥.2	1.g/kn wet wt.
21800	Aroclor 1254	 2	in alumnum foil 6. teflen lid gramed	oil Freeze	*11	52	ng/kg wat wt
345.20	Greeter 1769	2		oil freeze	Į.	52	unten mot me.
37374	Suf-Alpha Isomer	£ 2		oil freeze	711	S	ing/kg wet wt
3126	Puf-Bora Isomer	<u> </u>	in alumines tail	ufil Frenze	11,	0.2	1.97kg wet wt.
. 3.6	filt Christ Isoner	5		an Freeze	11,	9.5	JA JUM BY/50
32361	th lordany	2		nil Freeze		0.1	un/ky wit wt.
ć.	U.C	2		nil Freeze	, n	0.5	egille wet with
	#t	5		nil Freeze	11,	0.5	ng/ka wet ut.
3111.	٦,٢٠ (۱)١	 E		ord Ireeze	ŗ,	9.0	ta fow p4/ps
11666	13. 131	£		ntl France		0.5	ed/ky wet wt.
1.00	Liv Petrip	£		ril broze	. 11,	o.5	ug/kg wet wt
55.4	Indication Suffite	=		it Fronze		0.5	ingiky wet wt.
٠١،٠٤	"ept. ohlor	£	in almoiner foil 6, teflos lid seamped	oil freeze	414	uh.	ng/kg wet et.
303.00	Hey tachlor fperiole	- T	in alminim fail	nij freezo	11,	0.2	ng/ky wet wt.
	Sethorychlor	- E	in abmings foil 6. teflor lid vrapped	nil Freeze		0.5	un'la wet wt.
		9		nii freeze		s	unten unt mt.
	5	2		iii Freeze	,11	ur.	un/ky vet wt.
113.161	fentar blav ophen f	£		il freeze	'II	25	19/kg vet ut.
19:61	Strong Strong	£		vil freeze	711	vs.	ng/kg wet wt.
		•		L Francis		•	•

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY

### Holding Paraieter Holding Preserving	Container Fine Container Samples) Before and After Au hrs P.G days P.G hrs P.G hrs P.G days P.G days P.G days P.G				
itrogy hitrogy	Before and After Au hrs P.G days P.G hrs P.G hrs P.G hrs P.G hrs P.G	Preservition Technique	Analytical !ethodology	Detection	Units
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Nitrogen, Total Amonia 24 hrs Nitrogen, Total Kjeldahl 7 days Nitrogen, Titrate + 24 hrs Nitrogen, Titrate + 24 hrs Nitrogen, Titrate + 24 hrs Orthogens, Titrate + 24 hrs None None Algal Growth Potential 7 days Chlorass, Senthic None Bromass, Senthic None ATP-Ademosine Triphusphate 6 ro Chlorophyll-c 30 days Caddis 30 days Caddis 30 days		toclaving			
Fitnie Altai Counts Alai Counts Alai Counts Alai Counts Alai Counts Alai Counts Alai Counts Biomass, Senthic Albenosine Triphosphate 6 ro Ciorophile Albentic Albenosine Triphosphate 6 ro Ciorophile Albentic Colorophile Benthic Ceneral Accolinorophile Benthic Caddis Kone Caddis Kone Thone		4°C, H ₂ SO ₄ to pil ·2 4°C, H ₂ SO ₄ to pil ·2 4°C, H ₂ SO ₅ to pil ·2	#3, p. 159 #3, p. 1.5 #1, p. 620	0.01	F.9 N/1 F.9 N/1
Alrai Counts Alrai Counts Alrai Counts Biorrass "Gasurements Penthic AIP-Adenosine Triphusphate 6 ro Siorrass, Denthic AIP-Adenosine Triphusphate 6 ro Siorrass, Plankton Culorophyll-b Culorophyll-c Culorophyll-c Culorophyll-c Culorophyll-c Culorophyll-c Culorophyll-c Sunthic General Benthic General Gaddis Kone Caddis Kone		4°C. Filter on site	#3, p. 256	0.01	1/4 bis
Algal Growth Potential N/A Algal Growth Potential N/A Eigerass Teasurements Penthic Blorass, Senthic ATP-Ademosine Triphusphate 6 ro Eigerass, Plankton 3 days Chlorophyll-c 30 days Chlorophyll-c 30 days Chlorophyll-c 30 days Chlorophyll-c 30 days General General Gone Brytoza Hone General Gone General Gone General Gone General Gone General Gone Application of the propertion of the properties of		4-C. 12304 to pin <2	# 3, p. 209, 230	TO:-	std. units
Signass Teasurements Profit (1998) Browness, Senthic None Eunhotic Zone ATP-Ademosine Triphosphate 6 ro Signass, Plankton 7 days Chlorophyll-b 30 days Chlorophyll-b 30 days Chlorophyll-c 30 days Macroinvortchrates Benthic General Hone General Hone General Hone Geddis Kone		N/A	#12, calculated (mean of 12 and 14 day counts with	1	7_67 & w 2/0win
Eignrass Tensurements Penthic Blorass, Senthic ATP-Adenosine Triphosphate 6 ro Eignrass, Plankton 7 days Chlorophyll-b 80 days Chlorophyll-c Recroinyortebrates Benthic General Tione 3ryozoa Tione Gradis None	A :1/A	#/#	no nutrients added) Coulter Hodel 7r Particle Counter	.:	سور) ساع/دس،
Euchotic_Zone Euchotic_Zone ATP-Ademosine Triphusphate 6 ro Cilorosty, 11-2 Cilorosty, 11-2 Cilorosty, 11-2 Cilorosty, 11-2 Adays Colorosty, 11-2 Adays C					
Euchotic Zone ATP-Adenosine Triphosphate 6 ro Eiorass, Plankton 7 days Chlorophyll-b 30 days Chlorophyll-b 30 days Chlorophyll-c 30 days Macroinvortebrates Benthic General flone Gradis None					
Euchotic_Zone ATP-Ademosine Triphusphate 6 ro Eibrass, Plankton 7 days Cilorophyll-c 30 days Chlorophyll-c 30 days Chlorophyll-c 30 days Macroinvortobrates Benthic General "ione 3ryozoa "lone Caddis Rone Caddis Rone	a.	10 Formalin, (W/Na28407(solj) (See Text) to pil 7.0-7.3), Rose Bengal	j (See Text)	;	
ATP-Adenosine Triphosphate 6 ro Siorass, Plankton 7 days Culorophyll-6 30 days Chlorophyll-6 30 days Macroinvortchrates Benthic General Hone Sryozoa Hone Caddis None					
Chlorophyll-e Chlorophyll-b 30 days Chlorophyll-b 30 days Ma <u>croinvrrtchrates</u> Benthic General Hone Bryozoa Hone Caddis Kone	no Extract irmed days P.G	ئىر 2-20-7	5. 1043 5. 1935	61	1/64 E 10/16
Macroinvortchrates Benthic General Cone Bryozoa Hone Caddis None		frozen, dark Frozen, dark Frozen, dark	#1, p. 1030, 1032 #1, p. 1939, 1032 #1, p. 1039, 1032	0.00	1/6:: 1/6::
Benthic Ceneral Gone Bryozoa Hone Caddis Kone					•
Gradis Sone Clacking Sone Caddis Kone					
Bryozoa ilone Caddis None Chaobhris ilinn	Œ	ormalin, (w/3a23472[50])	10 (5-2 7-4)		
Caddis Kone Chaobhris i'nn	۵	10 Formalin, (w/27,2407(501)		;	
Citaoborus (Citaoborus	۵	10 Formalin, (w/Ka28407(501)		.	No./sq m
	•	/.u-/.j',Kose Bendal Drublin, (m/Na-CAD)		-	Mo./sq m
75021 Chiron-midae Rone P	٩	to pl: 7.9-7.3),Rose-Gengal [7]		-	No./sq.m
75.25 [orbica]	۵	to pl 7.0-7.3), nose Rengal '	418 (See Text)	-	Mo./sq m
		7.0-7.3) Rose Bengal	*18 (See Text)	~	Mo./sv m

TABLE 4 (continued)

MATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES, ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

135.27 Read-gride Read-place Read-pl	STORET Code	Parameter	Holding Time	Container	Preservation er Technique	tnalyti	Analytical Methodology	Detection	Units
Benthic (continued) 10° Formalin, (w/4a28407(gal)		Hacroinvertebra	te S						
Teeches		Benthic (cont	inued)				•		
Leeches Snails Mone P Stromalin, (w/Nap240/(sol) Co pH 7.0-7.3, Rose Bengal Division Chlorophyta Snails Snails Hester Dendy Snails Snails Wilap40/(sol) Snails Snails Wilap40/(sol) Co pH 7.0-7.3, Rose Bengal Snails Snails Snails Wilap40/(sol) Co pH 7.0-7.3, Rose Bengal Snails Sna	75027	некадепіа	:one	a.	10° Formalin, (w/NayB407(\$01)		15.5	-	9
Snails None P 10: formalin, (w/lankg/)(sol) Sponnes : ione P 10: formalin, (w/lankg/)(sol) Hester Dendy General : ione P 10: formalin, (w/lankg/)(sol) Plankton Plankton Plankton Plankton Plankton Seneral : ione P 10: formalin, (w/langkg/)(sol) Division Chlorophyta : ione P 5: formalin, (w/langkg/)(sol) Order Cladophorales : ione P 5: formalin, (w/langkg/)(sol) Order Cladophorales : ione P 5: formalin, (w/langkg/)(sol) Order Ulotrichales : ione P 5: formalin, (w/langkg/)(sol) Order Volvocales : ione P 5: formalin, (w/langkg/)(sol) Order Volvocales : ione P 5: formalin, (w/langkg/)(sol) Order Volvocales : ione P 5: formalin, (w/langkg/)(sol) Order Zygneratales : ione P 5: formalin, (w/langkg/)(sol) Order Zygneratales : ione P 5: formalin, (w/langkg/)(sol) Order Zygneratales : ione P 5: formalin, (w/langkg/)(sol) Class Bacillariophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Bacillariophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Bacillariophyceae : ione P 5: formalin, (w/langkg/)(sol) Division Cyanophyta : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyta : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyceae : ione P 5: formalin, (w/langkg/)(sol) Class Ghrysophyceae : ione P 5: formalin, (w/langkg/)(sol)	75915	Leeches	flone	٥.	10. Fornalin, (w/3a2PaU7(501)		(e : e : e : e : e : e : e : e : e : e		
Sponges ione P 13. pil 7.0-7.3, Rose Bengal 19. formal in, (w/lapRa07(sol) to oil 7.0-7.3, Rose Bengal 19. formal in, (w/lapRa07(sol) to oil 7.0-7.3, Rose Bengal 20. plantton Plantton Plantton Plantton Seneral Plantton Proper 107 Formal in, (w/lapBa07(sol) to pil 7.0-7.3, Rose Bengal 20. plantson 10. plantson	22022	Snails	None	۵	on 7.9-7.3. Formalin.		ee lext)	-	#0./sq m
General Hester Dendy General Hone P 10° Formalin, (w/Ha2640/(sol) Phytoplank:20 Seneral Mone P 5° Formalin, (w/Ha2840)(sol) Division Chlorochyta Hone P 5° Formalin, (w/Ha2840)(sol) Order Cladophorales Hone P 5° Formalin, (w/Ha2840)(sol) Order Cladophorales Hone P 5° Formalin, (w/Ha2840)(sol) Order Cladophorales Hone P 5° Formalin, (w/Ha2840)(sol) Order Ulotrichales Hone P 5° Formalin, (w/Ha2840)(sol) Order Volvocales Hone P 5° Formalin, (w/Ha2840)(sol) Order Volvocales Hone P 5° Formalin, (w/Ha2840)(sol) Order Zygneratales Hone P 5° Formalin, (w/Ha2840)(sol) Class Bacillariophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Class Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Class Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Class Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Elass Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Class Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Elass Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Elass Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol) Elass Chrysophyceae Hone P 5° Formalin, (w/Ha2840)(sol)	75773	Sponges	None	a.	to pH 7.3-7.3, Rose Bengal 19. Formalin, (w/laz8407(sol)		ee Text)	.	
General Plankton Plankton Seneral Plankton Seneral Polytoplankton Seneral Division Cyamophyta Hone Post Formalin, (w/Ha28407(sol) Coder Cladophorales None Post Formalin, (w/Ha28407(sol) Coder Tetrasporales None Post Formalin, (w/Ha28407(sol) Coder Volvocales None Post Formalin, (w/		Hester Dendy			to an 7.0-7.3, kose bengal		יב ובאר) יב ובאר)		8 /-02
Plankton Seneral Division Chlorophyta Hone P 55 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Chlorococcales None P 55 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Cladophorales Hone P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Cladophorales Hone P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Ulotrichales None P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Volvocales None P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Volvocales None P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Volvocales None P 57 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Class Bacillariophyceae Hone P 52 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 52 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 52 Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Division Cyanophyta None P 55 Formalin, (w/Ha28407(sol) to pil 7.0-7.3].		General	tone	٥.	10% Formalin, (W/Na2540/(sol) to pH 7.0-7.3, Rose Bengal		ext)	;	No./sq m
Seneral None P 5% Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Division Chlorophyta Hone P 5% Formalin, (w/Ha28407(sol) to pil 7.0-7.3]. Order Chlorococcales None P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Order Cladophorales Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Order Tetrasporales None P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Order Volvocales None P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Order Volvocales None P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Order Zygneratales None P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Class Bacillariophyceae Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3]. Class Chrysophyceae Hone P 5% Formalin, (w/Ha28A07(sol) to pil 7.0-7.3].		Plankton					-		
Seneral Seneral Seneral Division Chlorophyta Hone P Stromalin, (w/Ha28407(sol) Stromalin, (w/Ha28407(sol) Order Chlorococcales None P Stromalin, (w/Ha28407(sol) Coder Cladophorales Rone P Stromalin, (w/Ha28407(sol) Coder Cladophorales None P Stromalin, (w/Ha28407(sol) Coder Cladophorales None P Stromalin, (w/Ha28407(sol) Coder Volvocales None P Stromalin, (w/Ha28407(sol) Coder Zygneratales None Stromalin, (w/Ha28407(sol) Coder Zygneratales None Stromalin, (w/Ha28407(sol) Coder Zygneratales None Stromalin, (w/Ha28407(sol) Coder Zygneratales Stromalin, (w/Ha28407(sol) Coder		Phytoplankto	e i						
Division Chlorophyta Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Chlorococcales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Cladophorales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Cladophorales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Ulotrichales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Volvocales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Volvocales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Volvocales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Order Volvocales None P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Bacillariophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Chrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Chrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Chrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Chrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Ghrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol) Class Ghrysophyceae Hone P 55 Formalin, (w/Ha ₂ R ₄ O ₇ (sol)		General	None	a	Formal in,	;			,
Order Chlorococcales None P C Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Cladophorales Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Tetrasporales Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Ulotrichales Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Volvocales Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Volvocales Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Order Zygneratales None P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Division Chrysophyta Rone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Ghrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Chrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Chrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Division Cyamophyta None P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Chrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Chrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀) Class Chrysophyceae Hone P S' Formalin, (w/Ma ₂ R ₀ P ₁ S ₀)	11300	Division Chlorophyta	tone	•		1 .	5, 16, 1/ (See lext)		. O
Order Cladophorales Rone P 57 Formalin, 47:42.8.97 (sol) Creer Tetrasporales Rone P 57 Formalin, 47:42.8.97 (sol) Creer Tetrasporales Rone P 57 Formalin, 47:42.8.97 (sol) Order Ulotrichales Rone P 57 Formalin, 47:42.8.97 (sol) Order Volvocales Rone P 57 Formalin, 47:42.8.97 (sol) Order Zygneratales Rone P 57 Formalin, 47:42.8.97 (sol) Division Chrysophyta Rone P 57 Formalin, 47:42.8.97 (sol) Class Bacillariophyceae Hone P 57 Formalin, 47:42.8.97 (sol) Class Chrysophyceae Hone P 57 Formalin, 47:42.8.97 (sol) Class Chrysophyceae Hone P 57 Formalin, 47:42.8.97 (sol) Division Cyanophyta None P 57 Formalin, 47:42.8.97 (sol) Division Cyanophyta None P 57 Formalin, 47:42.8.97 (sol)	71 322	Order Chlorococcales	None	۵.			5, 16, 17 (See lext.		
Crder Tetrasporales None P S' Formalin, (w/Ha2B#07(sol) Order Ulotrichales None P S' Formalin, (w/Ha2B#07(sol) Order Volvocales None P S' Formalin, (w/Ha2B#07(sol) Order Zygneratales None P S' Formalin, (w/Ha2B#07(sol) Division Chrysophyta Rone P S' Formalin, (w/Ha2B#07(sol) Class Bacillariophyceae Hone P S' Formalin, (w/Ha2B#07(sol) Class Chrysophyceae Hone P S' Formalin, (w/Ha2B#07(sol) Class Chrysophyceae Hone P S' Formalin, (w/Ha2B#07(sol) Division Cyamophyta None P S' Formalin, (w/Ha2B#07(sol) Class Chrysophyceae Hone P S' Formalin, (w/Ha2B#07(sol) Class Chrysophyceae Hone P S' Formalin, (w/Ha2B#07(sol) Class Chrysophyceae Hone P S' Formalin, (w/Ha2B#07(sol)	71320	Order Cladophorales	flone	•			5, 16, 17 (See lext		[6] . (6) .
Order Ulotrichales None P C Formalin, W.Na28407(sol) Order Volvocales None P 5% Formalin, W.Na28407(sol) Order Zygneratales None P 5% Formalin, W.Na28407(sol) Order Zygneratales None P 5% Formalin, W.Na28407(sol) Order Zygneratales None P 5% Formalin, W.Na28407(sol) Class Bacillariophyceae None P 5% Formalin, W.Na28407(sol) Class Chrysophyceae None P 5% Formalin, W.Na28407(sol) Class Chrysophyceae None P 5% Formalin, W.Na28407(sol) Orivision Cyanophyta None P 5% Formalin, W.Na28407(sol) Class Chrysophyceae None P 5% Formalin, W.Na28407(sol) Orivision Cyanophyta None P 5% Formalin, W.Na28407(sol)	71398	Grder Tetrasporales	None	•		1 .	5, 10, 17 (See 13KG) () () () () () () () () () (
Order Volvocales None P 5% Formalin, (w/Na28g07(sol) Order Zygneratales None P 5% Formalin, (w/Na28g07(sol) Division Chrysophyta Rone P 5% Formalin, (w/Na23g07(sol) Class Bacillariophyceae Hone P 5% Formalin, (w/Na23g07(sol) Class Chrysophyceae Hone P 5% Formalin, (w/Na28g07(sol) Class Chrysophyceae Hone P 5% formalin, (w/Na28g07(sol) Division Cyanophyta None P 5% Formalin, (w/Na28g07(sol)	11111	Order Ulotrichales	None	•	PH 7.0-7.3 Formalin,	14, 1	5, 16, 17 (See Text		
Order Zygneratales None P 5% formalin, (W/Na28407(sol) Division Chrysophyta Rone P 5% formalin, (W/Na28407(sol) Class Bacillariophyceae Hone P 5% formalin, (W/Na28407(sol) Class Chrysophyceae Hone P 5% formalin, (W/Na28407(sol) to m4 7.0-7.3). Class Chrysophyceae Hone P 5% formalin, (W/Na28407(sol) to p4 7.0-7.3). Division Cyanophyta None P 5% formalin, (W/Na28407(sol) to p4 7.0-7.3).	71302	Order Volvocales	None	o .		14, 1	5. 16, 17 (See Text		(M) (M)
Division Chrysophyta Rone P C Formalin, (w/Ha23407(sol) to pH 7.0-7.3). Class Sacillariophyceae Hone P ST Formalin, (w/Ha23407(sol) Class Chrysophyceae Hone P ST formalin, (w/Ha28407(sol) to pH 7.0-7.3). Division Cyamophyta None P ST Formalin, (w/Ha28407(sol) to pH 7.0-7.3).	71335	Order Zygneratales	None	•	pr 7.0-7.3 Formalin,	. 14,	5, 16, 1/ (See lext		
Class Bacillariophyceae Hone P 55 form 7.9-7.3). Class Chrysophyceae Hone P 55 tormalin, (w/Na28407(sol) to rnd 7.0-7.3). Class Chrysophyceae Hone P 55 tormalin, (w/Na28407(sol) to pH 7.0-7.3). Division Cyanophyta None P 55 formalin, (w/Ha28407(sol) to pH 7.0-7.3).	71393	Division Chrysophyta	Hone	_	Formalin,	***	5, 16, 1/ (See lext		(m/ Or
Class Chrysophyceae : Hone P 5: turnalin, W/Na2R407(sol) to pH 7.0-7.3). Division Cyanophyta None P 5: Formalin, W/Na2R407(sol) to pH 7.0-7.3).	71200	Class Bacillariophyceae	Hone	۵.	Formalin,		5, 16, 17 (See lext.		i ()
Division Cyanophyta None P 5% Formalin, ($\frac{1}{4}$ /Ha28 $_4$ 07(sol) to pH 7.0-7.3).	71394	Class Chrysophyceae	tone	•	tormalia.	1 . 14.	5, 16, 17 (see lext.		
	71432	Division Cyanophyta	None	۰	Formalin,	414	5, 16, 17 (See Text		i .
					to pH 7.0-7.3).	14, 1	5, 16, 17 (See Text	1.0	#0./m

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
WATER QUALITY PARAMETER STORET CODES, MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES
ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

								ı
STORET Code	Parameter	Holding	Container	Preservation Technique	Analytical Methodology	Detection Limit	Units	
	Plankton							
	Phytoplankton (c	(continued)						
71436	Order Charmesiphonales	None	P 5% Fc	Formalin, (W/Na23407(sol)	(41.7 5.2) 51 30 31 414		: :	
71434	Order Chroococcales	None		formalin, (w/Na28407(sol)	#14, 15, 10, 1/ (See lext)	e (E .	
71119	Order Hormaconales	None	22.5	pu /.9-/.3). Tormalin, (w/MazB407(sol)	fld, 15, 16, 1/ (See Text)	0.1	:40./ml	
7,1377	Division Eunlenochyta	None.	P 5. 5.	pH 7.0-7.3). [2017]	#10, 15, 16, 17 (See Text)	1.0	No./ml	
11781	Division Durambuta	HO O		pil 7.9-7.3).	#14, 15, 16, 17 (See Text)	1.0	No./m1	
11:01			33	pt 7.9-7.3).	#14, 15, 16, 17 (See Text)	1.0	քեթ. /թյ	
	Zoop lank ton							
	General	None		Formalin, (W/Na28407(sol)	(See Text)	5		
13212	Fhylum Arthropoda	flone	6. 22. 23. 24. 24. 24. 24. 24. 24. 24. 24. 24. 24	Formalin, (w/Na28A07(sol)	(100 100)	.	MO./L	
5 11	Larvae Crustacea	flone	9.5		(2xal aac)	i		
16217	Crder Cladocera	None	2.5	€:	(See Text)	0.01	70./L	
21275	Subclass Ostracoda	None	P 54 F	pH 7.0-7.3), Rose Bennal Formalin, (w/Na28407(sol)	(See Text)	0.01	No./L	
71797	Order Copepoda	flone		nli 7.0-7.3), Rose Bengal Formalin, (W/Na2807(sal)	(See Text)	0.01	No./L	
13-117	Phylum Protozoa	None	5, to 9	pH 7.0-7.3), Pose Bengal' Formalin, (W/Naz8407(sol)	(See Text)	10.0	No./L	
71259	Class Ciliata	2			(See Text)	0.01	No./L	
1361					(Sue Text)	0.01	No./L	
7021.		e con		_	(See Text)	0.01	No./L	
71279	Phylum Potifera	Mone		Formalin, (w/Ma29407(sn)) pH 7,0-7,3), Rose Sennal	(See Text)	0.01	1/01/1	
Cours	Znoplankton, Other	None	ا ال	Formalin, (#/Naphan7(sol)	(See Text)	10.0	10./L	
								1

TABLE 4 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
WATER QUALITY PARAMETER STORET CODES,
MAXIMUM HOLDING TIMES, PRESERVATION TECHNIQUES,
ANALYTICAL METHODOLOGY AND DETECTION LIMITS FOR PHASE II
(FEBRUARY, 1979 THROUGH DECEMBER, 1979)

NOTE: P = Plastic or G = Glass or N/A = Not Applicable

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All field instruments (see Lalow) are calibrated against standards or as specified and provided with spare batteries and/or chargers before being sent into the field. In addition, appropriate standard solutions were sent to the field with the instrument. All instruments were rechecked upon return; necessary maintenance and/or provision for storage was accomplished as specified by the instrument manufacturer. When in use, instruments were calibrated prior to beginning a set of measurements and at a minimum of four-hour intervals with a final check at the end. Verification of calibration was run after every 10 samples or if any unusual reading was encountered. Any anomaly was recorded.

Instrument	Routine Calibration
Dissolved Oxygen Meter	Air calibration as specified. Calibrated versus Winkler titration if problems were suspected or after any membrane change.
pH Meter	Battery check and calibration against commercially available certified buffers.
conductivity Meter	Calibrated daily against KCl solution 0.01 demal as specified in manual. Any deviation in reading from manual specifications was recorded in notes.
Temperature Functions	Checked against mercury ther- mometer daily. Any deviation was reported in notes.
Current Meter	Circuit check. Daily check of zero. Yearly factory recali-

In situ measurements were recorded along with weather conditions in the appropriate section in the field data notes on carbonless duplicate field record as shown in Figure 2. The notes were checked for completeness before leaving each station, and initialed by the observer.

bration.

Water Quality Sampling

Unless otherwise noted, water quality sampling followed the schedules summarized in Tables 3 and 4. After the first sampling cycle of Phase I, special sampling station FE was located approximately 0.7 km. west of the location originally specified

FIGURE 2 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY TYPICAL FIELD DATA RECORD SHEET FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	Sheet
WATER AND AIR RESEARCH, INC. 6821 S.M. Archer Road Gainesville, Florida 32602	Fil Trip Station of Of Date 79 / Time
(904) 372-1500	1
Job: LS Phase: II	Total Depth (m) . X-Section Loc (% 30 From R Bank lock upstr)
IN SITU PARAMETERS	<u> F12</u>
	•
Cloud Cover (%)	Wind: Speed (MPH) Dir. (*From N)
•	rrent: Speed (fps)
Secchi Disk (m) 1% L	ight Pen. Depth (m) Air Temp. (C)
Sample	.umhos. DO (ma/1)
Depth (m) Temp. (°C)	pH Cond. $(\frac{\mu mhos}{cm})$ DO $(mg/1)$ $+$ ORP (mV)
• • • • • • • • • • • • • • • • • • •	\ \ \ \ \ \ \ \ \ \
	П
NET PLANKTON SAMPLES	Ļ F_2]
Grab _ or Vertical _ or	Oblique Tow Angle Dist.(m)
	Stop Time (sec)
_8.02.jar14	(Sec)
HESTER DENDY SAMPLES	F22
X-section location (% from R	Bank Look Upstr) ہے۔۔۔ Buoy ہے or Float ہے۔
Placement Date 179	Retrieval Date 79
Container Number(s) ———	
PONAR DREDGE SAMPLES	Code LF23
X-Section location (% from R Bank Look Dep upstream)	Container Number(s)
├	

because of the inaccessibility of the original site due to submerged navigation hazards. During the second sampling cycle, station 12 was not sampled due to mechanical boat problems.

All preservatives were added to the appropriate sample containers (with the exception of containers for spiked metal analyses) prior to being sent into the field. The actual spiking of spiked metal samples was also performed in the field.

Grab Samples. Grab samples for the water quality parameters listed in Table 2 were taken at midstream one meter below the surface or at mid-depth where the station depth was less than ten feet. In addition, to define the effects of stratification, grab samples were taken at midsection one meter above the bottom at sampling sites 07, 09, 10, 11, 13 and 15 (Table 3) for complete analyses from the third through sixth sampling cycles.

The samples were collected with either a 2-liter Wildco-Beta-Plus horizontal style water sampler or a 4-liter Wildco Alpha vertical style water sampler. The samples which require filtration such as dissolved metals, dissolved ortho-phosphate and dissolved organic carbon (DOC) were filtered immediately on the boat according to the method in Table 4. The samples were then distributed to the sample containers with the proper preservative as cutlined in Table 4. The sample bottle numbers were recorded on a carbonless duplicate field bottle record as shown in Figure 3. After all the bottles had been recorded and checked, they were stored as specified in Table 4, in coolers either filled with ice at 4°C or filled with dry ice for those samples which had to be frozen immediately.

Preservatives were added to most of the sample containers that require them prior to going to the field. However, the samples for the total and dissolved metals analyses, which require concentrated nitric acid (HNO₃) as a preservative were preserved in the field to reduce the amount of time the undiluted HNO₃ was in contact with the sample container. In addition, the samples used for dissolved organic carbon analyses had their preservative, sulfuric acid (H₂SO₄), added in the field to minimize the risk of organic contamination. Despite efforts to prevent any contamination in either the sampling, handling or preservation phases, a number of DOC sample values were greater than TOC values. All values were less than 10 mg C/1 and in general the differences between DOC and TOC were 1 to 2 mg C/1. In all cases where DOC results were greater than corresponding TOC results, the DOC results were reported as "less than" the stated value.

Composite Samples. Composite samples for chlorophyll \underline{a} , \underline{b} , and \underline{c} , phytoplankton, dry biomass, adenosine triphosphate (ATP), and algal growth potential were obtained by collecting a depth integrated raw water sample from either the euphotic zone, defined as the zone above the 1% light transmission level, in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river stations). Samples were taken using a horizontal beta water sampler

FIGURE 3

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY TYPICAL FIELD BOTTLE LIST RECORD FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

WATER AND AIR RES	SEARCH, INC.	Trip St	tation	31:46.
6821 S.W. Arc		Job: LS		of
P.O. Box 11 Gainesville, Flo		Phase: II		
(904) 372-1			Observer	
		<u> </u>		
DEPTH INTEGRATED	SAMPLES	TemppH	Cond	
	No.	Preservation	Container	
Sample Container	Req'd	Technique	Number(s)	
1 qt. plastic ja	ar 1 4-51	formalin soln.		
	<u>_(p)</u>	vtoplankton)		
<u>lot plastic ja</u>	<u>rem</u> +tri	(ATP) filter:scrape is+ oz. bottle		
2 liter (H)	1* 7111	ter immed. onto 0.45 GF		
	f111	ter-freeze in dark (Black)		
1/2 liter (P)	$\frac{1}{(B1)} \frac{4 \cdot C}{(B1)}$	dark (biomass)		
1 gal. polycar-	1# 4·C.	dark (AGP) (Black)		
2 liter (H)	1# 4°C	, dark, H2SO4 to pH		
	<2	AGP) (Red)		
1/4 liter (C)	1/ 111	ter 0.45 washed filter		
	HCIL	to pH <3 freeze (Green)		
WATER QUALITY SA	AMPLES	ـــــــــــــــــــــــــــــــــــــ		-
Sample Depth (m	1)	Surface پ	Mid-depth Botto	.
			1110-06PC11 20000	
			••	··· 7F
Sample Container	Req'd	Preservation Technique	Container Number(s)	··· 31
Sample	Req'd	Preservation	Container	‴ ∓ਾ ਂ
Sample Container	Req'd 1* 4*(Preservation Technique C, Dark (Black)	Container	
Sample Container	Req'd 1* 4*(1*or2## 4*(Preservation Technique C, Dark (Black) C, H2SO4 to pH <2 (Red)	Container	
Sample Container	Req'd 1* 4*(1*or2## 4*(Preservation Technique C, Dark (Black)	Container	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P)	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(Preservation Technique C, Dark (Black) C, H2SO4 to pH <2 (Red) O3 to pH <2 (Blue) C, HC1 to pH <3, filter	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C)	Req'd 1* 4*0 1*or2## 4*0 1* HN0 1* Qn	Preservation Technique C, Dark (Black) C, H2SQ4 to pH <2 (Red) O3 to pH <2 (Blue) C, HCl to pH <3, filter site (wf), freeze (Green)	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P)	Req'd 1* 4*(1*or2# 4*(1* HN(1* 4*(1* 4*(0n	Preservation Technique C. Dark (Black) C. H2504 to pH <2 (Red) G. HC1 to pH <3. filter site (wf). freeze (Green) C. H2504 to pH <2. filter	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C)	Req'd 1* 4*(1*0r2# 4*(1* HN(1* 4*(Preservation Technique C, Dark (Black) C, H2SQ4 to pH <2 (Red) G to pH <2 (Blue) C, HCl to pH <3, filter site (wf), freeze (Green) C, H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G to pH <2, filter on	Container Number(s)	
Sample Container 1 liter (0) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P)	Req'd 1* 4*(1*or2# 4*(1* HN(1* 4*(1* 4*(1* 4*(1* 4*(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1* 5)(1*	Preservation Technique C, Dark (Black) C, H2SQ4 to pH <2 (Red) O3 to pH <2 (Blue) C, HCl to pH <3, filter site (wf), freeze (Green) C, H2SQ4 to pH <2, filter site (Red) (GFF pretreat) O3 to pH <2, filter on te** (Blue)	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/4 liter (C) 1/2 liter (P) 1 liter (Q)	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n 1* HN(1* 2 ((B)	Preservation Technique C, Dark (Black) C, H2SO4 to pH <2 (Red) C, H2SO4 to pH <2 (Red) C, HCl to pH <3, filter site (wf), freeze (Green) C, H2SO4 to pH <2, filter site (Red) (GFF pretreat) C, to pH <2, filter on te** (Blue) ml 2 N ZnAc/l rown)	Container Number(s)	
Sample Container 1 liter (0) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P)	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n 1* HN(1* 2 ((B)	Preservation Technique C. Dark (Black) C. H2SQ4 to pH <2 (Red) G. H2SQ4 to pH <3. filter Site (wf). freeze (Green) C. H2SQ4 to pH <2. filter site (Red) (GFF pretreat) G. to pH <2. filter site (Red) (GFF pretreat) G. to pH <2. filter on te** (Blue) ml 2 N ZnAc/1	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/4 liter (C) 1/2 liter (P) 1 liter (Q)	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n 1* HN(1* 2 ((B)	Preservation Technique C., Dark (Black) C., H2SQ4 to pH <2 (Red) G., HCl to pH <3, filter site (wf), freeze (Green) C., H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G. to pH <2, filter on te** (Blue) ml 2 N ZnAc/l rown) G. to pH <2 (Blue)	Container Number(s)	7
Sample Container 1 liter (0) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P) 1 liter (Q) 1/2 liter (P)	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n 1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(Preservation Technique C., Dark (Black) C., H2SQ4 to pH <2 (Red) G., HCl to pH <3, filter site (wf), freeze (Green) C., H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G. to pH <2, filter on te** (Blue) ml 2 N ZnAc/l rown) G. to pH <2 (Blue)	Container Number(s)	
Sample Container 1 liter (0) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P) 1 liter (Q) 1/2 liter (P) 2 liter (H)	Req'd 1* 4*(1*or2# 4*(1* HN(1* 4*(Preservation Technique C., Dark (Black) C., H2SQ4 to pH <2 (Red) G., HCl to pH <3, filter site (wf), freeze (Green) C., H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G. to pH <2, filter on te** (Blue) ml 2 N ZnAc/l rown) G. to pH <2 (Blue)	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P) 1 liter (Q) 1/2 liter (P) 2 liter (H) BACTERIOLOGICAL S	Req'd 1* 4*(1*or2# 4*(1* HN(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1* 4*(1*	Preservation Technique C., Dark (Black) C., H2SQ4 to pH <2 (Red) G., HCl to pH <3, filter site (wf), freeze (Green) C., H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G. to pH <2, filter on te** (Blue) ml 2 N ZnAc/l rown) G. to pH <2 (Blue)	Container Number(s)	
Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P) 1 liter (Q) 1/2 liter (P) 2 liter (H) BACTERIOLOGICAL S Container Numb	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n. 1* 4*(1* HN(1* 4*(1## 4*(1## 4*(5AMPLES ber(s)	Preservation Technique C. Dark (Black) C. H2504 to pH <2 (Red) G. HCl to pH <3. filter site (wf). freeze (Green) C. H2504 to pH <2. filter site (Red) (GFF pretreat) G. to pH <2. filter on te** (Blue) ml 2 N ZnAc/l rown) G. To pH <2 (Blue)	Container Number(s)	
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Sample Container 1 liter (Q) 2 liter (H) 1/2 liter (P) 1/4 liter (C) 1/2 liter (P) 1 liter (Q) 1/2 liter (P) 2 liter (H) BACTERIOLOGICAL S Container Numb COMMENTS: ±2	Req'd 1* 4*(1*or2## 4*(1* HN(1* 4*(0n. 1* HN(1* 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1## 4*(1	Preservation Technique C, Dark (Black) C, H2SQ4 to pH <2 (Red) G, HCl to pH <3, filter site (wf), freeze (Green) C, H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G, H2SQ4 to pH <2, filter site (Red) (GFF pretreat) G, H2SQ4 to pH <2, filter on te** (Blue) G, TAAC/1 TOWN) G, TOWN G, TOWN	Container Number(s)	

at the surface and at one meter intervals until the lower limit was reached as determined above. The samples were then composited and the required aliquots for the various parameters were drawn. When the depth to be composited was greater than seven meters, samples were taken at the surface and equal spaces over the required sampling depth.

Bacteriology Sampling and Analysis

Bacteria grab samples were taken (Table 3) in two 100 ml auto-claved sample bottles at a depth of 0.3 meters below the water's surface. Analyses for fecal coliforms and fecal streptococci were run in the field according to the method shown in Table 4. Precision control was tested by duplicating the first station of each day. Results were considered consistant if the 95 percent confidence intervals for both replicates overlapped.

Sediment Sampling and Analysis

Sediment samples were collected at each station listed in Table 3 and analyzed by the method referenced in Table 4. Each station was sampled at mid X-section station location with an epoxy coated PonarTM dredge (standard size, 9"/side). If rock was encountered such that a grab could not be obtained, a sample was obtained at another point along the X-sectional location at that station. All samples were stored as specified in Table 4.

Corbicula Sampling

Corbicula specimens were taken where available utilizing an epoxy coated PonarlM dredge (standard size, 9"/side). A minimum of four grab sampling attempts were made at each of those stations specified in Table 3. Samples were taken at four equally spaced locations across the channel at river stations and at four locations, 90-degrees apart, along an imaginary 20-foot diameter circle at lake stations. Recovered specimens were washed prior to storage as specified in Table 4.

Other Field Sampling & Processing

Field sampling and processing methods for the algal growth potential test, phytoplankton, zooplankton, ATP, macroinvertebrates and macrophytes are discussed in subsequent sections of this report.

Storage and Shipment of Samples

All preserved water and sediment samples were stored as specified in Table 4 in coolers filled either with ice to 4°C or with dry ice for freezing. At the end of each sampling day, the samples were sent to the Water and Air Research, Inc. (WAR) lab in Gainesville via special courier, along with copies of the field notes from that day.

Laboratory Procedures

Chemical Parameters

Sample Integrity. The integrity of all samples was maintained from the moment they were received in the laboratory until the data were reported and approved. All samples were "logged in" immediately upon receipt. When feasible, preservation was also checked. Project name, parameters, sample number, and date received were recorded both in the log and on appropriate forms in the project notebook. A control sheet was used to monitor work in progress. Samples were stored as specified according to the analyses to be run, normally either frozen or at 40°C.

Samples sent to outside laboratories were also recorded as above. Date and shipping information were recorded in the project notebook. Documentation of shipment was preserved as part of the permanent laboratory record. A tabulation of bottle numbers accompanied any samples so sent. Spiked samples and duplicated samples were routinely included in the shipments as a quality control check. These control samples were not specifically identified to the subcontractor.

Analytical Methods. Chemical analyses of water, sediment, and mollusk tissue as well as bacteriological analyses of water strictly adhered to the procedures listed in Table 4. Any deviation from these specifications has been noted with the reported data.

Notes and Pecord Keeping. When the samples reached the laboratory, they were "logged in" immediately by date in the permanent laboratory record in a color-coded permanent project notebook. Each station was given a unique four-digit laboratory number. All notes, analysis sheets, printouts and any other lab information relative to the Lake Seminole project were also kept in the project notebook. Verification of the bottle numbers for each station by comparison with the field record was the responsibility of the lab supervisor. A tabulation of sample identification by laboratory code number, bottle number, and station number including the date sampled and the date received became a part of the permanent record. A table was made to monitor the status of the analytical effort on a given set of samples.

Analytical data sheets by analysis were prepared for groups and individual samples. These were marked with the sample identification number(s), project, date sampled, date received, and date analyzed. All analytical readings and calculations appear on these data sheets. These were turned in daily and filed in the appropriate project notebook. Any unusual appearance of the samples or results was recorded on the data sheets. These data became a part of the permanent record. All data sheets were initialed by the analyst and calculator. Recorder printouts such as autoanalyzer charts or fluorometer records were labeled according to parameter, project, date sampled and date analyzed and accompanied the data sheets which have been kept as a part of the permanent record in the project notehooks.

Sub-contracted Analyses. The list of analyses given in Table 5 were sub-contracted. Liason with each sub-contractor assured that the methods specified in Table 4 were followed in every case. Sample integrity records were maintained and spiked and duplicated samples were included in each shipment to provide quality control independent of the sub-contractor. Reports of results including quality control results were entered as a part of the permanent laboratory record. The laboratory supervisor was responsible for monitoring the analytical performance of each sub-contractor.

Calculation and Reporting of Data. Calculation of the results of analyses was accomplished as soon as possible following completion of the "hands on" work to facilitate assessment of the control exercised by standards, replicates, and spiked samples. This assessment was the responsibility of the laboratory supervisor. All calculations were shown on the analysis sheets as part of the permanent laboratory record.

Checking calculations either by the analyst or the data calculator was standard practice. It was the responsibility of the laboratory supervisor to insure that all data reported had been calculated correctly.

"In-house" data tabulations and data were stored in the project notebooks as a part of the permanent record. Notes pertaining to field data, anomalous results, or deviations from standard methods were appended to finished reports. The accuracy of such reports was the responsibility of the laboratory supervisor.

For each cycle, the complete laboratory data base was tabulated on computer coding sheets and reviewed. These sheets were turned over to the project manager for entry into the data storage-retrieval system. A xerox copy of these sheets was kept in the project notebook as a part of the permanent laboratory record.

Quality Control Assurance

The following paragraphs describe the methods and procedures employed to assure the accuracy of the field measurements and laboratory chemical water analyses results. Short cuts were not permitted and any abnormalities were brought to the attention of the laboratory supervisor immediately. This included any analytical or safety abnormality as well as instrumental malfunction, or problems in replication or spike recovery.

Calibration Checks. These checks were done before using any instrument and the calibration recorded on the analytical data sheet. Daily logs of oven, refrigerator, and incubator temperatures were maintained with this equipment.

Gravimetric Analysis. Accuracy of analytical balances was monitored with a standard weight set (coins) and results were recorded on log sleets. Calibration checks and routine maintenance is done biannually by an established contractor.

TABLE 5

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUBCONTRACTED WATER QUALITY ANALYSES FOR
PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Parameter	Subcontractor	Transmission Method
Composite Samples		·
Chlorophyll <u>a</u> , <u>b</u> , & <u>c</u>	TSI	Bus
Water Samples		
TOC Dissolved Organic Carbon Calcium, Magnesium, Sodium and Potassium	CH2M-Hill CH2M-Hill TSI	Courier Courier
<u>Sediment Samples</u>		<u>.</u>
Mechanical Analysis TOC Mercury Arsenic Chlorinated Hydrocarbons, Pesticides	TSI CH2M-Hill TSI TSI TSI	Bus Courier Bus Bus Bus
Mollusk Tissue		
All Parameters	IZT	Bus
Zooplankton		
Identification of all Taxa	TA	Courier

NOTES:

TSI - Technical Services, Inc., 103-7 Stockton Street, Jacksonville, Florida, 32201

CH2M-Hill - CH2M-Hill, Southeast, Environmental Laboratories, 7201 N.W. 11th Place, Gainesville, Florida, 32602

TA - Taxonomic Associates, P.O. Box 12379, University Station, Gainesville, Florida, 32604

<u>Titrimetric Analyses</u>. The method was checked against a standard solution daily. The results were recorded on the data sheet and as part of the accuracy control data.

Colorimetric Analyses. A standard curve of at least 3 points was run daily. More points were run if required. The results of standards were recorded on the data sheet and also as a part of the accuracy record.

Instrumental Analyses. The Atomic Absorption Spectrophotometer and the Technicon Autoanalyzer II had daily calibration curves constructed. Instrument settings were recorded on the data sheet and as a part of the instrument record.

Fluroide electrodes, pH meters, conductivity meters, and turbidimeters were calibrated as necessary and the calibration was checked after every 10 samples. The notation was entered on the data sheet that the calibration was made.

The laboratory deionized water supply's resistance was continuously monitored and maintained at 500,000 OHMS. Deionized water blanks were always included in analyses to control possible contamination from this source.

Precision and Accuracy Control. Shewhart type (USEPA, 1979) precision and accuracy control charts were maintained for all routine laboratory analyses. These charts are updated yearly using the entire data base generated by the laboratory for the preceding year's work. These charts were maintained as a permanent laboratory record.

In this study precision was also monitored by analysis of duplicate samples. A minimum of 10 percent of the total number of samples obtained during a given sampling cycle were split in the field by filling two separate containers from the same grab sample. In general, this was achieved by sampling one station in duplicate on each sampling day. One of this pair of samples was analyzed as the first sample of an analysis run; the other was run as the last analysis. An additional sample was duplicated within a given analytical set. The difference between the field duplicates was compared with the control limits on the quality control chart. If the difference exceeded the warning limits the difference between the inhouse duplicate was compared. If the in-house and field differences exceeded the warning limits the whole set of analyses was repeated. If the field duplicates exceeded the warning but the in-house duplicate was in control, each of the field duplicates was run again to verify that the difference was due to sampling rather than analytical procedure.

The results of the field duplicated samples was included in each progress report and as Appendix E in this report. The sample duplicated in-house was recorded on the precision chart.

Daily monitoring of the accuracy of the analytical work was accomplished by comparing the results of recovery of known spikes from replicated spiked samples. One sample in every 10 was spiked and at least one spiked duplicated sample was included on each sample set. The difference between the recovered value for the spike versus the normal spike value was compared with the accuracy chart warning limit. If this value exceeded the warning limits the analysis for the set of samples was repeated. The results of the spike recoveries were recorded on the accuracy chart.

Spiked sample analyses were run for:

Fluoride
All nitrogen forms
All phosphorus forms
Sulfate

Chlorides All metals.

In addition, two samples each sampling cycle were spiked in the field with iron, manganese, and zinc. Samples for dissolved metals for these same stations were spiked with iron and manganese. The spiked samples for total metals were split with the South Atlantic Division Laboratory (SAD). Results of these metal spike recoveries were included in each progress report.

In addition to the in-house accuracy control, quality control assurance was monitored by splitting two samples per cycle with the SAD laboratory.

Reference Samples. Environmental Protection Agency reference samples for chlorophyll a, b, and c, nutrients, BOD, major ions, and trace metals were analyzed during cycle 3 and the results compared to established values.

Bacteriological Quality Control. Control of the quality of bacteriological media was maintained by careful attention to holding times and conditions for prepared m-fecal coliform broth (96 hours at 4°C) and KF-streptococcus agar (one month at 4°C). Sterility of sample bottles and equipment was assured by monitoring autoclaving time and temperature. A heat sensitive test strip was included in each set of autoclaved material.

In the field, attention was paid to meeting holding times for bacteriological samples. Incubator temperatures were carefully monitored. One sample each day was analyzed in duplicate.

Algal Growth Potential Test Methodology

The algal assay procedure, bottle test, was performed on water

collected from 11 selected stations (06, 07, 09, 10, 11, 12, 13, 14, 15, 16 and 18) during sampling cycles 2 ($\frac{1}{2}$ -4/1979), 4 (7/16-19/ 1979) and 6 (9/24-26/1979) in accordance with procedures specified in Miller et al. 1978. Algal growth response was indirectly measured as ash-free dry weight after 12 and 14 days incubation using a Coulter Model Zf particle counter equipped with a near cell volume computer. The counter and cell volume computer were calibrated in accordance with the manufacturer's procedures using a 4.59 μ diameter organic particle obtained from Coulter Electronics, Inc. All counts were run using a lower threshold of 10 μm^3 to exclude debris. Calibration of the mean cell volume computer was performed each time the instrument was used. Procedures for calibrating Coulter type electronic particle counters are also included in Miller et al. 1978. A gravimetric factor to convert particle volume to ash-free dry weight was determined to be 2.8 x $10^{-7}~\mu g~\mu m^{-3}$ for Selenastrum capricornutum Printz under the culture conditions used. Five counted, sized suspensions were washed three times by centrifugation, transferred to tared crucible cups and dried at 70°C overnight. After weighing the dried algae, the ash content was determined after heating the material at 500°C for 1 hour. A subculture of this organism supplied from the Pacific Northwest Environmental Research Laboratory (EPA) on 4/4/78, was maintained for use during each of the algal assays.

Depth integrated samples from the euphotic zone in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river stations) were collected as specified earlier. All samples were processed within three days by an autoclaving-filtration procedure to assess the amount of algal biomass which could be grown from all nutrients in the water, including those contained in filterable organisms and other particulate matter (Miller et al. 1978). Background chemical analyses for total Kjeldahl nitrogen, ammonia nitrogen, nitrite plus nitrate nitrogen, as well as dissolved ortho-phosphate and total phosphorus were performed on the samples before and after autoclaving.

The experimental design shown in Table 6 was followed to determine the nutrient availability, the primary growth limiting nutrient(s) (nitrogen, phosphorus, or trace metals) and to determine the presence of toxic substances. This procedure, outlined in Miller et al. 1978, compares the relative growth of the test alga in water spiked according to Table 6 to the growth response of the alga in unspiked lake water. Each combination as well as the lake water control was set up in triplicate for each station.

Phytoplankton Methodology

Phytoplankton was collected from a depth integrated raw water sample from the euphotic zone in quiescent waters (lake stations) or from the entire water column in more turbulent waters (river

TABLE 6

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY BASIC EXPERIMENTAL DESIGN USED TO DEFINE NUTRIENT LIMITATIONS AND ALGAL GROWTH POTENTIAL FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Lake water (not spiked)

Lake water + 0.05 mg P 1^{-1} as K_2HPO_4

Lake water + 1.00 mg N 1^{-1} as NaNO₃

Lake water + 0.05 mg P 1^{-1} + 1.00 mg N 1^{-1}

Lake water + 1.00 mg Na₂ EDTA 1⁻¹ as Disodium (Ethylenedinitrile) tetraacetate

Lake water + $0.05 \text{ mg P } 1^{-1} + 1.00 \text{ mg Na}_2 \text{ EDTA } 1^{-1}$

Lake water + 1.00 mg N 1^{-1} + 1.00 mg Na₂ EDTA 1^{-1}

Lake water + 0.05 mg P 1^{-1} + 1.00 mg N^{-1} + 1.00 mg Na_2 EDTA 1^{-1}

stations). The water sample was depth integrated with a Van DornTM sampler just below the surface and at one meter depth intervals until the lower limit was reached. If the euphotic zone in quiescent waters or impoundment depth in more turbulent waters was over 7 meters deep, eight samples beginning at the subsurface were equally spaced over the required sampling depth. These were composited and a 1 liter aliquot for the station withdrawn, placed into a pre-numbered 1 liter plastic jar, and preserved with 5 percent buffered formalin (neutralized with sodium tetraborate to a pH of 7.0 to 7.3). The collection number, site, date, and time of collection were recorded for each station in a field notebook along with weather (cloud cover, wind direction, and intensity) and water conditions (surface waves, color, turbidity, and depth) and any unusual observations during sampling.

In the laboratory, the field data were transferred to a permanent log book and the samples checked against this record. Phytoplankton analysis was made by the Utermohl (1931, 1958) method. Each sample was resuspended with a magnetic stirrer and a known aliquot (usually 20 or 40 mls) was transferred into a standardized plankton sedimentation chamber with a known settling area of 397.6 mm². After 24 hours of settling, the chamber was placed on a Zeiss Invertoscope "D" microscope (magnification to 1000X), and a minimum of 150 organisms were enumerated for each sample. Cell counts were made by randomly selecting microscope fields along at least two perpendicular transects of the chamber and counting all cel.s within each field. For colonies and filaments consisting of a large number of cells, 1.'4 or 1/2 of the colony or filament was counted and this resultant number multiplied to obtain the number of cells for the entire colony or filament. Empty algal cells or diatom frustules were not included in the counts. Identified cells were recorded on standardized bench sheets and later converted to number of cells per milliliter for each taxon in the water sample using the following conversion equation:

 $Cells/ml = \frac{(CA)}{(FMV)}$

where,

C = number of cells counted;

A = area of bottom of the counting chamber (397.6 mm^2) ;

F = number of fields counted;

M = area of one microscope field (0.038 mm²); and

V = volume of aliquot settled.

All organisms were separated and identified to species where possible. The following major standard taxonomic references were used for identification: Heurck, 1896; Hustedt, 1927-1930, 1930, 1931-1959, 1949, 1961-1966; Hanna, 1933; Huber-Pestalozzi and Hustedt, 1942; Smith, 1950; Prescott, 1951; Drouet and Dailey, 1956; Bourrelly, 1966-1970; Patrick and Reimer, 1966, 1975; VanLandingham, 1967-1979;

Drout, 1968, 1973; Whitford and Schumacher, 1973. Other minor references too numerous to list were also used.

Since the classification of diatoms is based primarily on the shape and markings of the cell wall, critical identifications can only be done if the diatoms are cleaned (all organic matter removed); thereby leaving only the silica cell walls. Diatom identification was facilitated by cleaning 30 ml of the initial samples using the hydrogen peroxide method (Werff, 1953; Patrick and Reimer, 1966). This involved placing the aliquot in a 2,000 ml beaker and adding approximately 50 ml of 30 percent hydrogen peroxide. A small amount (0.1 - 0.2 g) of potassium dichromate was added (resulting in a purple solution) and in a few moments an exothermic reaction began. This resulted in a violent heating and boiling of the mixture, which oxidized all of the organic matter within the solution, including that contained within the diatoms.

Upon completion of this aqueous combustion reaction, the solution turned yellow and the mixture was then transferred to a 300 ml tall beaker, filled with distilled water, and allowed to settle 6 - 24 hours. The diatomaceous material settled to the bottom and formed a delicate flocculent layer. The sample was then decanted at least 3 times to remove the chemicals (using distilled water to refill the beaker after each decanting). The cleaned diatoms were then poured into a storage vial and enough alcohol added to make at least a 30 percent solution to inhibit growth of fungi.

Permanent slides were made of the cleaned diatoms with Hyrax mounting medium. Clean #1 cover slips (22 mm sq) were flooded with water containing different concentrations of the suspended diatoms and allowed to air dry at room temperature or on a low temperature hot plate. When dry, the coverslip was heated to 500° C for 5 - 10 minutes and then inverted into a drop of Hyray on a slide. The slide was then heated for a few minutes at 300 - 400°C until the Hyrax stopped bubbling under the coverslip. This allowed time for the penetration of the diatom frustules by the Hyrax and the evaporation of the solvent. The slide was then allowed to cool while pressing the coverslip down so that it would lie flat on the slide. The Hyrax hardened rapidly and the excess along the edges was scraped off with a razor blade. The slide was then wiped clean with acetone. Initial diatom identifications were made from these slides. If identification difficulties arose in other samples during the study period, portions of these samples were also cleaned and permanent slides made to facilitate diatom identifications.

Voucher specimens of difficult taxa were sent to Dr. C. W. Reimer, Academy of Natural Science of Philadelphia (diatoms) and Dr. J. B. Lackey, Professor Emeritus, University of Florida (green and blue-green algae) for taxonomic verification. Additional outside taxonomic checks were made by the U.S. Army Corps of Engineers, Mobile District, Mobile, Alabama.

Zooplankton Methodology

Semi-quantitative zooplankton samples were collected from quiescent waters (lake stations) with a single vertical tow through the water column by using a Wisconsin style 0.5 meter diameter, 80 micron mesh weighted plankton net with an attached flowmeter. The tow was performed at a uniform speed of approximately 0.5 meter per second to minimize avoidance reactions and sampling bias. Zooplankton were collected from turbulent waters by taking an oblique tow from near the bottom to the surface while letting the boat drift with the river flow to maintain a tow angle as nearly vertical as possible. The tow angle, time, length of rope let out, and flowmeter readings were recorded. Zooplankton samples were preserved in a final concentration of 5 percent buffered formalin with Rose Bengal added in pre-numbered plastic bottles. The collection number, site, date, and time of collection were recorded for each station in a field notebook, along with weather (cloud cover, wind direction, and intensity) and water conditions (wave height, color, turbidity, and depth) and any unusual observations during sampling.

In the laboratory, the field data were transferred to a permanent log book and the samples were checked against this record. Zooplankton were identified on a compound microscope with a magnification to 400%. They were then enumerated by placing a thoroughly mixed aliquot in a Wards zooplankton counting wheel and examining it at a magnification of 20 - 60% under a stereoscopic microscope. The aliquot size (taken with a Henson-Stempe; pipet) varied from 1 - 5 ml depending on the densities of organisms and detritus. All zooplankton within the chamber were identified to genus wherever practicable and enumerated except for the two dominant genera which were identified to species.

The principal taxonomic references utilized were Edmondson, 1959; Brooks, 1957; Deevey & Deevey, 1971; Marsh, 1929; and Voight, 1956. Taxonomic checks were made by the U.S. Army Corps of Engineers, Mobile District, Mobile, Alabama.

The number of each taxon in the sample was converted and reported as number per liter using the following conversion equations:

Number of organisms/1 = $\frac{AC}{BV}$

where,

C = organism count (raw data)

A = volume of the concentrated sample;

V = volume of water passed through the plankton net; and

B = volume of the examined aliquot.

The total volume (V) was calculated as a function of the length of the water column which the net passed through:

$$V = \pi r^2 1 = (3.14)(0.25 \text{ m})^2 1 = 1 (0.196 \text{ m}^2)$$

with 1 being the length of the water column based on the flowmeter value or the length of rope let out if the flowmeter malfunctioned.

ATP Test Methodology

Sampling and Sample Preparation

At stations 01 through 19, 200 ml or more of water from the depth integrated water sample were filtered through a 0.45 µm membrane filter (Millipore). Upon completion of the filtration, the vacuum was broken just as the last of the water passed through the filter, and the filter was quickly transferred to a 150-ml Pyrex beaker containing 10 ml of boiling 0.02 M Tris buffer. The filter was placed upside down into the Tris and heated for 5 to 10 minutes at 100°C in a water bath. The beaker was then removed from the water bath, the filter scraped with a plastic policeman to loosen the filtrate from the filter into the Tris, and replaced in the boiling water for 5 min. The beaker was then removed from the water bath and cooled rapidly. The filter was held against the side of the beaker and any remaining filtrate scraped off with a plastic policeman. The filter was then discarded. The sample was then transferred to a 1-oz Nalgene (plastic) screw cap bottle, labeled with the bottle # (T___) and volume (mls) filtered, and frozen at -20°C (dry ice in the field).

When the sample was ready to be analyzed, the contents of the bottle were thawed, the sample mixed and then transferred to a centrifuge tube. The volume of sample was recorded and approximately half of the sample was transferred back to the original container (in case of errors such that a redetermination was necessary) and the remainder centrifuged. The tubes were removed from the centrifuge and the supernatant poured into a clean, labeled scintillation vial for transport to the University of Florida for determinations.

Standardization Curve

An ATP standard stock solution was prepared by weighing 119.3 mg of crystalline adenosine 5' – triphosphate-disodium salt using ATP-free glassware. The ATP was dissolved in 100 ml of fresh 0.02 M Tris buffer containing 29.2 mg of EDTA and 120 mg of MgSO₄ (resulting concentration of 1 mg of ATP/ml). This was dispensed in 5.0 ml aliquots in 1-oz Nalgene bottles and stored at -20°C until required.

One ATP stock bottle was thawed and 1.0 ml of the ATP stock solution containing 1 mg of ATP/ml was pipetted into a 1-liter

volumetric flask and brought up to volume with 0.02 M Tris buffer (or pipet 1 ml of stock solution into 100 ml of Tris, mix, and pipet 1 ml of this dilution into 9 ml of Tris to result in the same dilution). This solution contained 1.00 μ g ATP/ml. The following serial dilutions were then made:

1.00 X 10⁻¹ µg ATP/ml 1.00 X 10⁻² µg ATP/ml 1.00 X 10⁻³ µg ATP/ml 1.00 X 10⁻⁴ µg ATP ml.

The calibration curve was determined by making a minimum of 3 replicate determinations of each of the serial dilutions.

Reagents

Tris Buffer: (0.02 M) (Tris (Hydroxymethyl) Aminomethane) - Dissolve 2.5 g of the buffer crystals in 1 liter of deionized water. Bring to pH 7.75 using HCl (pH meter). Sterilize by autoclaving for 30 min. at 121°C, 15 psi (103 kPa) pressure, and store refrigerated in stoppered flasks.

FLE-50: Firefly Lantern Extract (Luciferase/Luciferin Reaction Mixture) - Reconstitute by adding 35 ml (or 37.5 ml) of low response water to one vial of extract. The luciferase/luciferin reaction mixture must be mixed gently without shaking. Allow to stand at room temperature (23 - 26°C) for one hour. Filter through Whatman #1 filter paper and store in an ice bath for 3 hours before use. Use enzyme preparation within 8 hours of preparation.

Hydrochloric Acid (0.2 N): Add 17.0 ml of HCl (sp. gr. 1.19) to a 1-liter volumetric and bring to volume with water.

ATP-Free Glassware: Rinse chemically clean glassware three times with 0.2 N HCl, rinse three times with Tris buffer, and rinse three times with low-response water.

Low-response Water: Sterile, deionized, ATP-free water may be prepared by treatment in a suitable system involving carbon treatment with deionization, filtration, glass distillation, or sterilization by autoclaving and stored under refrigeration in stoppered flasks.

Determination

One ml of reconstituted firefly lantern extract (35.0 ml low response water/vial of extract) was pipetted into a scintillation vial and the background light emission read. Using a Packard Tri-Carb Model 2002 liquid scintillation spectrometer (gain set at 53, window opening of 50 to 1,000, and set in a repeat count mode, with each

sequence) the normal background emission was 10 to 20 counts or less in the 6-sec counting interval.

Exactly:0.5 ml of the ATP standard or sample extract was added using the micropipette syringe (with new tip each time) and the vial swirled to thoroughly mix the contents. Eleven seconds after the sample addition to the firefly extract, the vial was inserted into the counting chamber and the counting sequence begun. Two samples from the beginning of the run were repeated at the end of each run to determine repeatability and check for decay of the firefly lantern extract during the run. For each cycle in Phase II, samples were analyzed for each of the 19 stations except during the last two cycles due to the loss of eight samples from September and eleven samples from December. These samples were inadvertently disposed of during storage before the analyses were done.

Macroinvertebrate Methodology

Benthic Natural Substrates

Benthic macroinvertebrate grab samples were collected at all nineteen locations. Sampling frequency was as outlined in Table 2 At the riverine stations, one sample was collected in the thalweg and one near each river bank. At lake stations 08, 09, 10, 11 and 13 samples were collected from three locations, taken 120 degrees apart, along an imaginary 20-foot diameter circle.

Benthic macroinvertebrates were collected with a standard size (9"/side) Ponari^M dredge. The dredge was lowered from the side of the boat, using a boom and power winch, slowly enough that a minimal "shock wave" was created so as not to disturb the benthos. Once the dredge touched bottom, the closing mechanism was immediately tripped and the dredge quickly raised to the surface. The dredge was then placed in a sieve bucket (US Standard No. 30 mesh) and the sample washed out with a squirt bottle filled with lake (or river) water to reduce the sample volume. The washed sample was then placed in a pre-numbered bottle (wide mouth, plastic, 1-pint or 1-quart).

Upon completion of all replicate sampling at a given station, buffered formalin preservative was added to a concentration of 5-10 percent, depending upon the quantity of defritus present. Rose Bengal was added as an organism stain to facilitate sorting, being added prior to preservation in order that the organisms' respiratory processes increased the amount of staining. The rose bengal was applied as a dry crystal, in a quantity sufficient to stain the sample a dark red, this quantity being variable according to sample size and the amount of detritus in the sample.

Upon return to the lab, the samples were shelved in an orderly manner and their numbers recorded and checked against the numbers in the field notes. Samples which were arcidentally misrecorded, or which were otherwise in error, were discarded.

In the laboratory, each sample was carefully washed in a US Standard No. 30 mesh sieve (or smaller, if organism loss was significant) that was partially immersed in a large white plastic pan. This removed formalin, excess Rose Bengal stain, and the remaining silt and clay. The sample was then placed, in manageable aliquots, in a white enamel pan for removal of organisms (sorting). Organisms were placed in 5 milliliter vials in 95 percent ethanol. Each vial was labeled with a code representing the project, collection date, type of substrate sampled, collection location, and replicate bottle number. For example:

LSN-3-18E

Project Code and Substrate -- Collection Date -- Station No. (Lake Seminole, (third cycle: (18 East Bank)
Natural Substrate) June 1979)

A vial with ethanol was weighed, the sampled organisms were then placed in the vial, and the vial was re-weighed. The difference between the two values was considered "wet weight" biomass. These numbers are high, however, due to the introduction of extra ethanol when inserting the organisms. Limited experiments suggesting errors as high as 25-33 percent were found at stations with relatively low biomass.

Organisms were identified with an American Optical Stereoscopic Microscope (7X to 80X) and a Swift Trinocular Microscope (40X to 400X). Taxonomic references used were Beck (1962, 1976), Beck and Beck (1969a and b; 1970), Curry (1958), Hilsennoff (1975), Mason (1973), Parrish (1968), Roback (1963, 1969), Brinkhurst and Jamieson (1971), Brown (1972), Edmunds, et al. (1976), Holsinger (1972), Thompson (1968), Usinger (1956), Wiggins (1977), and Saether (1977). Taxonomically difficult and ecologically important species were identified or verified by experts in their respective fields: William Beck, Florida A&M University, for Chironomidae and Michael Loden, Louisiana State University for Oligochaeta. Other authorities were consulted for the less frequent taxa, and for specific groups within the Insecta (such as Dr. Minton J. Westfall, University of Florida, for Odonata). Additional outside taxonomic checks were made by the U.S. Army Corps of Engineers, Mobile District, Mobile, Alabama.

The Chironomidae and Oligochaeta were grouped under low magnification and representative specimens were selected for microslide mounts, from which the identifications were made. Only one organism was mounted per microslide. Chironomids were mounted in polyvinylactophenol, which contains a clearing agent and makes excellent semipermanent slides. Oligochaetes were permanently mounted in Coverbond which does not contain a clearing agent. Organisms can be removed and remounted, if necessary, with either of these mounting media.

The Shannon-Weaver Species Diversity Index, \overline{H} (Odum, 1971) was calculated using the following expression:

$$\overline{H} = \sum_{i=1}^{t} \left[\frac{n_i}{N} \log_2 \left(\frac{n_i}{N} \right) \right]$$

where n_i = total number of organisms present as taxon i

 $N = \sum_{i=1}^{L} n_i = \text{total number of organisms present in the sample}$

t = number of taxa present in the sample

H ranges from a minimum of 0.0, occurring when all organisms belong to the same taxon (no diversity), to a maximum of \log_2 N, occurring where each organism present belongs to a unique taxon (maximum diversity).

Evenness (e)

If the organisms of a sample are uniformly distributed among the taxa present, the Shannon-Weaver Index assumes the value, $\ln t$, a condition of perfect evenness in the apportionment of individuals among species. The Index of Evenness, e (Odum, 1971) was used to express the actual Shannon-Weaver Index as a fraction of this "ideal" value:

$$e = \frac{\overline{H}_e}{\ln(t)}$$
 (defined for t >1)

where \overline{H}_e = actual Shannon-Weaver Species Diversity Index

t = number of taxa present in the sample

Evenness ranges from 0.0 (minimum evenness) to 1.0 (perfect evenness), and the calculated values are independent of the logarithmic base.

All samples were retained for reference until being sent to the Mobile District COE office at the end of the study. A few chironomid larvae and oligochaetes were donated to Mr. William Beck, Jr., and Dr. Michael Loden, for their taxonomic value.

Hester-Dendy Artificial Substrates

The Hester Dendy sampler used was that which is recommended for EPA biologists. It consists of fourteen 7.5-cm diameter plates, and twenty-four 2.5-cm diameter spacers, constructed of 0.625-cm thick tempered fiberboard, strung together on a 25-cm eyebolt so that there are 8 single spaces, one double space, two triple spaces and two quadruple spaces between the plates. This sampler has an effective surface area of 0.12 square meter.

Artificial substrates were emplaced at all stations except 08, 10, and 17. The samplers were attached to marker buoys and incubated for a period of six weeks. The sampling frequency is outlined in Table 2. Each sampler was collected by raising it from the water and quickly placing it into a cloth bag, which was then preserved in a 5-gallon RoperTM bucket containing a 10 percent buffered formalin solution. These samplers were not re-used, as it was very difficult to remove the formalin from the fiberboard

In the laboratory, the cloth bag was everted into a US Standard No. 30 mesh sieve placed in a white enamel pan. The sampler was then removed and disassembled. The bag, sampler, and organisms were rinsed to remove the formalin and accumulated sediments. All organisms were removed and placed in vials containing 95 percent ethanol. Each vial was labeled and the organisms identified as outlined in the previous section.

Shannon-Weaver and Evenness values for the Hesten-Dendy macro-invertebrates were calculated as described above.

Macrophytes

Aquatic mecrophytes in Lake Seminole were surveyed in June and September, 1978 and in April and August, 1979. The macrophyte surveys were conducted to map their extent, to obtain pressed specimens, to collect reference photographs, to develop species lists, and to determine their nuisance potential.

The reservoir was surveyed from a flat-bottomed boat for 3-4 days during each of the four field trips. Included were personnel from WAR and USACOE personnel at Lake Seminole. The vegetation map was

constructed from notes collected during field inspections. Specimens of selected "uncommon to rare" species were collected when in flower. These were pressed and duplicate herbarium sheets were prepared for delivery to the USACOE personnel at Mobile, AL. Reference photographs were taken in 35 mm color slide form and are being held at WAR. Species identifications and lists were made in situ by survey personnel. The primary taxonomic references were Radford, et al. (1964), Long and Lakela (1971), and Fassett (1940). The nuisance potential of aquatic macrophytes in the lake was determined by interviews with USACOE biologists, local residents, USACOE publications (USACOE; 1961, 1971, 1972, 1973, 1974, 1975, 1977a, 1977b, 1978), and by inspection.

The vegetation map was very difficult to construct for several reasons. First, appropriate aerial photography, which is the single most important tool for mapping vegetation, was unavailable. Second, the USGS Quadrangle maps, which were relied upon in lieu of aerial photos, are incorrect in many places, especially concerning the reservoir islands. Third, vegetative diversity is very high. And fourth, mapping the dense periphyton mats occurring in the shallow waters of the Flint River portion of the reservoir is dependent on the use of bottom topographic maps, which were unavailable to us.

Several compromises were made as a result of these problems. Shoreline vegetation, usually a mix of several to many species, was not shown in many places since it occurs in too narrow a band to show in the chosen map scale. This problem was most pronounced with the fringe of giant cutgrass around many islands and in the Chattahoochee River. Also, small patches of invading nuisance species, such as Egeria at the Georgia Ranger Station, are too small to show up in the chosen map scale. The periphyton mats are not shown at all.

RESULTS AND DISCUSSION

The following discussion is intended to summarize the data shown in Appendices A through M and highlight the trends and water quality observed during the seven sampling cycles of Phase II of the Lake Seminole Water Quality Management Study. Brief references and comparisons are also made to the data from Phase I (1978 data) where appropriate. For greater detail on Phase I results and discussion, see U.S.A.C.O.E., 1981.

Stream Flows

Data was obtained from the United States Geological Survey (USGS) in Doraville, Georgia, for the Flint River at Newton, Georgia (USGS Station 02353000) and the Ichawaynochawa Creek (a tributary of the Flint River) at Milford, Georgia (USGS Station 02353500). The location of the flow gaging stations are shown on the Map Coverage Index of Figure 1. Data for the flow through Jim Woodruff Lock and Dam and Walter F. George Lock and Dam were obtained from the U.S. Army Corps of Engineers, Mobile District. The data for Ichawaynochaway Creek, the Flint River, and the Chattahoochee River Stations represent flows outside the actual study area.

A summary of the available stream flow data is given in Appendix A. Monthly average stream flows for which there are data are shown for the Chattahoochee and Flint Rivers, Ichawaynochaway Creek, and the flow through Jim Woodruff Lock and Dam. Daily averages for one week prior to and the week of each sampling cycle are also shown.

In general, the data shows wide variations in flow from day to day on the Chattahoochee River due to fluctuations in discharge from Andrews Lock and Dam. The Flint River is not subject to these wide daily variations. Based on monthly average flows, the Chattahoochee accounted for approximately 50 to 70% of the total flow reaching Lake Seminole.

The period of highest flow occurred during sampling cycle 2 in April. Monthly average flows for April 1979 were 849 m³/sec at Walter F. George Lock and Dam on the Chattahoochee, 368 m³/sec on the Flint River at Newton, Georgia, and 1,518 m³/sec through Jim Woodruff Lock and Dam.

Water Quality Data

Complete in situ and laboratory water quality results are given in Appendices C and D respectively. Water temperatures were generally highest during cycle 5 in August. The mean temperature for this cycle for Chattahoochee River stations (01,02,03,04,05,06) was 28.2°C; for Flint River stations (16 and 17), 27.8°C; for lake stations (08,09,10,11,13,15), 29.2°C; and for stations on the

Apalachicola River, 28.80C. Station 12, on a wide, shallow, relatively stagnant arm of the reservoir had a water temperature of 27.5°C during this cycle and station 14 on Spring Creek was 27.0°C. However, at stations 12 and 14 the water temperature was highest during cycle 4 in July being 30.0°C and 29.0°C , respectively. All of these temperatures are within 10C of the maximum temperatures found during Phase I. Minimum temperatures were encountered during cycle 1 in February with reservoir and river stations having temperatures of 7.5°C-10.5°C. Stations 12 and 14 had temperatures of approximately 130C at this time. However, the temperature was lowest (11.0°C) for these two stations during cycle 7 in December. At no time during this study was a well defined thermocline evident at any of the lake stations sampled due probably to the shallowness of the reservoir and wind mixing of it. However, during cycle 3 (June), cycle 4(July), and cycle 5 (August), a slight (i.e., 1-2°C) surface warming was apparent at most lake stations. The greatest vertical variation gradient was observed at station 11 during cycle 4 with a difference of 4°C between the top and the bottom (Appendix F). No significant lateral thermal variation was observed during the fourth sampling cycle in July.

In general the D.O. levels found during Phase II were very similar to those found during Phase I. No anaerobic conditions were encountered at any sampling sites during any of the sampling cycles. The most severe dissolved oxygen depletion occurred during cycles 4, 5, and 6 in July, August, and September, respectively, due probably to reduced mixing and increased temperature. Dissolved oxygen during these summer months averaged about 7 mg/l (Appendix F) and ranged from a high of 12.3 mg/l one meter below the surface at station 15 to 4.2 mg/l five meters below the surface at station 11 just upstream of the dam (see Figure 1). Vertical profiles and D.O. isopleths for cycles 3 through 7 showing the variation in D.O. with depth and cross-section, respectively, at a given site are shown in Appendix F. In general, the reservoir stations exhibited a decrease in D.O. with depth during the late summer months; however, a marked thermocline did not develop and mixing from top to bottom was not inhibited. No significant lateral or vertical variation in dissolved oxygen was evident at any of the river stations during either the February or July sampling cycles with the exception of station 14 in Spring Creek during July. The variation found at this station (Appendix C) was probably due to the lack of current and mixing. At station 1 (just below the George W. Andrews Lock and Dam) the D.O. ranged from above 9.5 in February, April and December to a low of 7.3 at midstream in July. At station 18 (just below the Jim Woodruff Lock and Dam) the D.O. ranged from above 8.5 in February, April, and December to a low of 6.6 in July and September at midstream.

pH values for all stations during all the Phase II sampling cycles ranged from 6.8 to 8.9 at one meter below the surface. This compares with 6.7 to 9.1 during Phase I. During June and August, stations 11, 13, and 15 had a vertical variation in pH of 0.5 to 0.8 units but a horizontal variation of 1.5 units measured one meter below the surface.

The reverse was true of station 15 which had only a 0.2 horizontal pH variation but a vertical variation of 0.5 to 1.4 units at the various locations sampled (Appendix F). The remainder of the lake stations had no significant variation in pH. No significant lateral or vertical variation in pH was evident at any of the river stations during either cycle 1 in February or cycle 4 in July when extensive measurements were made (Appendix C).

All oxidation-reduction potentials (0.R.P.) in this report have been referenced to the Pt/H₂,H system. In general, 0.R.P.'s ranged from +280 mV to +590 mV for all stations during all Phase II sampling cycles (Appendix C). This range compares favorably to Phase I levels when the range was from about +300 mV to about +600 mV for all stations during all cycles. An exception to this trend was station 80, just below the Great Southern Land and Paper Company outfall on the Chattahoochee River, Mile 38.2. Here the 0.R.P. dropped sharply during cycles 1, 3, and 4 to values ranging from +6 to +170 mV. According to the values in Appendix D, the slight variation in other parameters measured at this station (water temperature, conductivity, dissolved oxygen, and pH) do not correspond or account for the changes in 0.R.P. 0.R.P. levels were also lower at this location during Phase I, ranging from +60 to +290 mV during cycles 2, 3, 5, and 6.

Turbidity over all the cycles during Phase II was highest for the Chattahoochee stations with a mean value of 11.1 FTU. The mean value for the Flint River stations was 6.8 FTU, the reservoir stations 10.5 FTU, and the Apalachicola stations 9.7 FTU. Turbidity at station 12 on Fish Pond Drain averaged 1.6 FTU and station 14 on Spring Creek averaged 3.7 FTU. Suspended solids concentrations, secchi disc, and percent light transmission exhibited the same general areal trends as turbidity. These same trends were also observed during Phase I.

Specific conductance, total dissolved solids (T.D.S.) and alkalinity all followed the same general areal patterns during both Phase I and II. All three parameters were lowest at the Chattahoochee River sampling sites (01-06), and generally higher on the Flint River arm of the reservoir. Station 14 on Spring Creek yielded the highest values for all three parameters for all the sampling cycles, except during cycle 3 of Phase II when alkalinity was higher in the Flint River.

Total iron concentrations were fairly high at times compared to the EPA criterion (U.S. EPA, 1976) and exhibited several areal and chronological trends. In all cases, the total iron was composed primarily of insoluble forms and followed the same trends observed during Phase I. Concentrations in the Chattahoochee were highest during cycle 2 in the spring, with values ranging from 1.2 mg/l to 3.5 mg/l. There was a general downward trend after the second cycle until cycle 6 in September when the values ranged from 0.3 mg/l to 0.6 mg/l. December showed the beginning of another upward trend. Concentrations in the Flint River were highest during the third sampling cycle with values ranging from

1.5 mg/l to 1.6 mg/l, and lowest during the fifth cycle in August with values around 0.5 mg/l. Concentrations in the reservoir were higher during cycles 1 through 3 and then dropped off during the remainder of the year except in September when they reached a mean peak of 1.3 mg/l. Spring Creek and Fish Pond Drain had much lower concentrations. In the Apalachicola River the concentrations were again highest during cycle 1 and were approximately 1.2 mg/l. The concentrations then declined to 0.7 mg/l during cycle 5 in August. It should be noted that concentrations of total iron at most of the stations during the spring and early summer months exceeded the suggested EPA criterion of 1.0 mg/l for fresh water aquatic life (U.S. EPA, 1976).

Concentrations of manganese and zinc were low at all times with concentrations never exceeding 0.2 mg/l during both Phase I and Phase II. There were no obvious areal patterns. Neither Georgia nor Alabama have numerical criteria for zinc or manganese.

Total inorganic nitrogen (TIN) concentrations were very similar during Phase II compared to Phase I and followed the same trends. Total inorganic nitrogen, composed primarily of nitrate-nitrite, was generally highest on the Flint River stations during the entire phase with values ranging from 0.49 mg/l to 0.78 mg/l. The Chattahoochee River and the reservoir stations were highest in the spring, decreased over the summer, and rose again in the fall. Mean values in the Chattahoochee ranged from a low of 0.13 mg/l in August to a high of 0.51 mg/l in February. In the Apalachicola River, values followed the same trend with a high concentration of 0.41 mg/l during cycle 1 to a low concentration of 0.12 mg/l in August. Total phosphorus values were generally much lower during Phase II than during Phase I. During Phase II, all values were between 0.01 and 0.07 mg/l. Stations in the reservoir and in the Chattahoochee and Flint Rivers showed no significant areal variation. In the Apalachicola River all values were $\langle 0.05 \text{ mg/l.} \rangle$ Station 12 on Fish Pond Drain had extremely low values of both $\overline{1}$ IN (<0.12 mg/l) and total P (<0.002 mg/l). Station 14 on Spring Creek showed low total phosphorus (<0.03 mg/1) but high TIN (0.38-0.57 mg/1). Dissolved orthophosphate values comprised a low percentage of the total phosphorus concentration, usually less than 20 percent, except in the Flint River where it comprised 50-80 percent of the total. Total Kjeldahl nitrogen and total organic nitrogen also showed no significant areal variation during either cycles 4-6 of Phase I or cycles 1, 5, or 7 of Phase II.

Color (measured in PT-CO units) was fairly uniform throughout the reservoir and on the Apalachicola, Chattahoochee, and Flint Rivers during both Phases I and II. However, values were slightly lower in the fall (August-December cycles) and also generally lower at stations 12 and 14.

All dissolved sulfate values were less than 15 mg SO₄/l during both Phases I and II. The Flint River generally had lower levels

(mean 2.4 mg SO₄/l) than the Apalachicola River, Chattahoochee River, or the reservoir stations. In both Spring Creek (station 14) and Fish Pond Drain (station 12), all values were less than 6 mg SO₄/l and most values were less than 1 mg SO₄/l.

During Phase I and Phase II there were no distinctive trends in measured carbon dioxide levels. However, there was a tendency for $\rm CO_2$ levels to be higher at all stations during the last cycle of both Phase I and Phase II. The highest values (10.8 and 13.6 mg $\rm CO_2/I$) were found at staitons 16 and 17, respectively, during December, 1979.

Chloride and total potassium, sodium, calcium, hardness, and magnesium were only sampled during cycles 4 and 6 in Phase I and cycles 1, 5, and 7 in Phase II. Values for chloride ranged between 3 mg Cl/l and 7 mg Cl/l with no areal trends observed. Total potassium values were less than 2.8 mg K/l at all stations except during December, 1979, when values ranged from 1.8 (station 11) to 13.6 mg K/l (station 17). Total sodium values ranged from 1.15 to 13.4 mg Na/1. There was a slight reduction in level in the Flint River and at stations 12 and 14 compared to levels in the Apalachicola River, Chattahoochee River, and at the reservoir stations. The Chattahoochee River had lower total calcium mean concentrations than the rest of the stations. Values for all stations ranged from 2.3 to a high value of 35 mg Ca/l at station 14 in December, 1979. Total magnesium showed no distinctive trends. All values were between 0.2-7.5 mg Mg/l during both Phase I and Phase II with the low and high value occurring at stations 12 and 15, respectively, during August, 1978. Total hardness followed the same trend as calcium. The lowest values were found at the Chattahoochee River stations and the highest values at station 14 in Spring Creek.

Bacteriology

Bacteriology results for Phase II are included in Appendix D. In Phase II, samples were collected for fecal coliform and fecal streptococci during all sampling cycles except cycle 2. Samples were collected at all the water quality sampling stations plus two stations near public park facilities, B1 and B2. Due to bad media and/or equipment malfunctions, bacteriological results are incomplete for stations 07 through 11, 18 and 19 in August and stations 01 through 05, 11, and 13 through 19 in December. Station B2 was not sampled in July due to boat problems. Although a complete set of data was not obtained, enough data were obtained to establish several trends which followed the same patterns found during Phase I. Generally the Chattahoochee stations were rather low in fecal coliforms with most stations under 50/100 ml during Phase II except during cycles 1 and 5 when values ranged up to 390/100 ml. The Flint River stations were significantly higher, especially during cycle 1 of Phase II when the count reached

1405/100 ml at station 17. Coliform counts during Phase I were also significantly higher in the Flint River with the highest concentration of 2,500/100 ml at station 17 during cycle 2 of Phase I. stations as well as Spring Creek, Fish Pond Drain and stations B1 and B2 were all low in coliforms. State standards for coliforms are 1000/100 ml in Georgia for waters classified for fishing and 200/100 ml in Florida for Class II waters. Coliform counts did exceed these standards several times throughout the study. During both Phase I and Phase II, fecal strep counts tended to be highest on the Apalachicola and Chattahoochee Rivers and low in the reservoir itself except during cycle 6 of Phase II when counts were as high as 2700/100 ml at Fish Pond Drain, Spring Creek, and the flint River also had low values generally. Fecal coliform to fecal strep ratios as shown in Appendix D tend to indicate that human sources of contamination predominate on the Flint; and agricultural sources on the Chattahoochee and Apalachicola Rivers.

Sediments

Complete surface sediment data tabulations and gradation curves for staticns 01-19 during cycle 5 are presented in Appendix L.

Physically, the surface sediments in the Chattahoochee, Flint, and Apalachicola Rivers are sands and sandy loams with the sediments at stations 18 and 19 in the Apalachicola River containing a significant gravel component. Surface sediments in the reservoir range from sand at station 13 to loam and sandy loam at stations 08, 09, 10, and 14 to silt loam at station 11. A summary of the physical characteristics as well as the USDA Textural classification of the sediments at each station is presented in Table 7.

In general, total organic carbon content and the percent loss on ignition (i.e. volatile solids) were closely related to the physical nature of the sediments. Both total organic carbon and loss on ignition were inversely related to the sand and gravel content. Those stations composed primarily of sands and gravels had TOC values ranging from 0.051 to 9.26 gm C/kg dry weight and percent loss on ignition values from 0.1 to 1.5 percent. Those stations with sediments characterized as loams had corresponding TOC values ranging from 17 to 64.6 gm C/km dry wt. and percent loss on ignition values of 6.6 to 11.3 percent. Sediment nutrient concentrations, as measured by total Kjeldahl nitrogen and total phosphorus as well as oil and grease levels were correlated to the TOC of the sediment and thus, the sediment physical characteristics. Highest nutrient levels were found at reservoir stations 08, 09, 10, 11, 13, and 15 and at station 14 in

Spring Creek during both Phase I and Phase II. For these stations during Phase II, total Kjeldahl nitrogen ranged from 337 mg/kg at station 13 to 4960 mg/kg at station 14. Total phosphorus ranged from 31.3 mg/kg at station 11 to 424 mg/kg at station 13.

Metal analyses were run on the sediments as As, Cd, Cr, Cu, Fe, Pb, Mn, Hg, Ni, and Zn. In general, sediment heavy metals concentrations were highest at reservoir stations with a higher silt and clay faction, i.e. at stations 08, 09, 10, 11, 13, and 15. Mean concentrations at these stations ranged from 1.2% (Cu) to 2.8% (As) the overall mean concentration and from 1.4X (Hg) to 27X (Cu) mean concentrations observed at the Chattahoochee and Flint River stations, i.e. stations 01, 02, 03, 04, 05, and 07 and stations 16 and 17, respectively. With the exceptions of Cr at station 14 and Hg at station 12, highest metals concentrations were observed at reservoir stations 10 (Mn), 11 (As, Cu, Fe, Pb, Ni, and Zn) and 13 (Cd). Generally, metals concentrations were lowest at stations in the Chattahoochee, Flint, and Apalachicola Rivers with sandy substrates. Average metal concentrations tended to be slightly lower in the Chattahoochee River than either the Flint or Apalachicola River. At the sites in Fish Pond Drain and Spring Creek, i.e. stations 12 and 14, respectively, concentrations of metals in the sediments exhibited no apparent pattern, with levels ranging between the extremes.

Pesticide concentrations were generally below detection limits although levels of the PCB Aroclor 1254 and the DDT metabolite p,p-DDE were detected at a number of sites. At these sites, PCB levels from 16 to 64 $\mu g/kg$ were found at stations 02, 08, 09, 17, 18, and 19 with the highest level at station 19. During Phase I, detectable PCB Aroclor 1254 levels ranged from 38.7 to 753 $\mu g/kg$ at stations 07, 08, 10, 12, 14, 16, and 17 with the highest level at station 14. DDE levels from 1.1 to 5.4 $\mu g/kg$ were detected at stations 05, 08, 10, 13, 14, and 15 with the highest level at stations 14. During Phase I, p,p-DDE was below the detection level at all stations. In contrast to Phase I when detectable levels of 2-4D were found at stations 01, 03, 06, and 09, no detectable 2-4D was found at any stations during Phase II. Due to the limited pesticide sampling, no definite trends can be ascertained.

Corbicula

Corbicula were found only at station 19 during cycle 5 of Phase II in August. Heavy metals and chlorinated hydrocarbon analyses were conducted on the sample. The results of these analyses are shown in Appendix K. Of the four heavy metals for which tissue analyses were performed, a Food and Drug Administration (FDA) Action Level has been established only for mercury. This level is 1.0 ppm for shellfish. approximately five times above the level found at station 19 during Phase II. During Phase I, all of the levels found in the samples from August were at least an order of magnitude below the FDA Action Level. During Phase I, the Corbicula sample at station 19 had 40.0 µg/kg wet wt. of chlordane and 10.0 µg/kg wet wt. of endosulfan sulfate in August.

TABLE 7

LAKE SEMINOLE MATER QUALITY MAMBARNT STUDY DESCRIPTION AND CLASSIFICATION OF SEDIMENTS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Station	%Sand (.05 ₁ 2mm)	%Silt (.002- .05mm)	#Clay (<.002 mm)	U.S.D.A. Textural Classification [Chow, 1964]	D ₆₀ 2	010 3 (mm)	U4	%Gravel (>#4 Sieve)	%Fines (<#200 Sieve)
01 02 03 06 00 00 10 11 11 15 16 11 18	98 99 99 99 33 33 33 49 67 67 65 66	44 443 443 443 443 443 443 12 13 13 13 13 13 13 13 13 13 13 13 13 13	21 17 17 17 17 17 17 17 17 17 17 17 17 17	Sand Sand Sand Sand Sand Loam Loam Sand Sand Sand Sand Sand Sand Sand Sand	0.60 0.75 0.81 0.93 0.72 0.045 0.040 0.040 0.064 0.064 0.064 0.064 0.064 0.064	0.18 0.25 0.33 0.25 0.00 0.00 0.00 0.00 0.33 0.33 0.36	3.3 3.2 2.4 2.9 2.9 2.9 2.9 2.0 4.0 2.7 11.7 11.7 12.3	38 00000000000000	2 11 12 93 12 93 33 33 33 33 33 33 33

NOTES:

Source: Chow, 1964

 D_{60} = diameter at which 60% of the particles are finer than the value shown. D_{10} = diameter at which 10% of the particles are finer than the value shown. U_{10}^{-1} D_{60}/D_{10} = uniformity coefficient.

Includes a significant gravel component.

During August of Phase II, both of these parameters were below the detection limit at station 19. An FDA Action Level for fish of 0.3 ppm has been established for chlordane. This level is over 7 times the highest level observed at any station during Phase I (FDA, 1979).

Algal Growth Potential

The ability of the waters of Lake Seminole to support algal growth was measured three times during Phase II of the project. Eleven stations (Table 3) were analyzed during cycle 2 (April), cycle 4 (July), and cycle 6 (September). All flask counts were completed for cycle 2. However, during cycle 4 some of the flasks were not counted at day 14 because they had either turned achlorotic or a fungus was observed to be present. In September, a procedural error was made resulting in contamination of the culture flasks with nutrients from the stock culture. The test was concluded and then rerun with the remaining water. For stations 9, 10, 11, 15, and 16 some of the EDTA spiked replicates were omitted due to insufficient sample volume remaining. Growth was also very poor in September and may have been due to a decline in the physiological condition of the test organisms. The complete data base including background water quality analyses of the nitrogen and phosphorus forms and concentrations occurring in the samples assayed for algal growth potential are shown in Appendix G. The AGP results submitted to the Environmental Protection Agency's Data Storage and Retrieval System (STORET Code 70988) consists of the mean of the average of the 12 day and 14 day growth in the unspiked water. In general the chemical analyses showed that dissolved ortho-phosphate was released from the condensed phosphate fraction during autoclaving. Total inorganic nitrogen (TIN) also increased slightly in many of the samples due to autoclaving. Most of these increases were due to ammonia released from the organic nitrogen fraction. Total Kjeldahl nitrogen and total phosphorus decreased slightly in most samples after processing except during cycle 6 when increase was noted.

In general, the condensed phosphorus and organic nitrogen fraction was not used for algal growth. Results of the replicated spiked and unspiked samples counted at 12 and at 14 days agreed within the +20 percent precision considered acceptable for the results of this type of assay except in September. However, due to lack of sufficient sample, the test could not be repeated.

Table 8 summarizes the overall mean algal growth potential and primary limiting nutrient as determined by analysis of nitrate, orthophosphate and EDTA spikes. Except in September when it was in the moderate range, the algal biomass produced in the unspiked lake water is indicative of moderately high to high productivity as defined by Miller et al. 1974. These authors surveyed algal growth potential in 49 lakes and set up four categories of relative productivity based on algal growth potential:

Low	$0 - 0.1 \text{ mg } 1^{-1}$.
Moderate	$0.11 - 0.8 \text{ mg } 1^{-1}$
Moderate High	0.8 - 6.0 mg 1 ⁻¹
High	$6.0 - 20.0 \text{ mg } 1^{-1}$

TABLE 8 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF ALGAL GROWTH POTENTIAL RESULTS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

		Growth Potential (mary Limiting Nutron (N or P)2	
Station Number	Cycle 2 April 2-4, 1979	Cycle 4 July 16-19, 1979	Cycle 6 Sept. 24-26, 1979
06	7.84(P)	8.81(P)	0.63(P)
07	6.03(P)	6.65(P)	0.22(P)
09	7.19(P)	5.17(P)	0.38(P)
10	7.37(P)	4.15(P)	0.19(P)
11	5.62(P)	3.68(P)	0.19(P)
i2	(3)	1.64(N,P)	0.14(P)
13	11.4(P)	2.34(P)	0.26(P)
14	1.74(P)	1.53(P)	0.45(P)
15	9.95(P)	7.56(P)	0.39(4)
16	10.4(P)	11.1(P)	0.56(4)
18	8.47(P)	4.20(P)	0.18(P)

NOTES:

¹Mean of both 12 and 14 day counts with no nutrients added.

²⁽N) = Limited by total inorganic nitrogen.
 (P) = Limited by available phosphorus.

³Station not sampled.

⁴Unable to determine due to inconsistent growth.

Comparing the algal growth potential categories with trophic state as defined by other characteristics, Miller et al. 1974 found that lakes with moderately high or high algal growth potential were classed as eutrophic.

The algal growth potential in the reservoir proper (stations 09, 10, 11, 13, and 15) decreased over the course of the summer. Algal growth potential at station 18, below the dam, followed the pattern of the reservoir stations. Stations 12 and 14, located in relatively isolated areas of the reservoir showed a much lower algal growth potential than the reservoir or the river stations.

The stations located upstream in both the Flint (station 16) and Chattahoochee (stations 06 and 07) Rivers generally had higher algal growth potentials than the stations located in the main body of the reservoir. No toxic responses were evident in the algal assay data at station 16 even though other biological population measurements (phytoplankton, ATP, zooplankton) suggest that a toxic impact may limit plankton population development in the reach below Bainbridge. If a toxic factor is present at station 16 it is apparently removed by autoclaving and/or filtration.

The results of nitrate, phosphate and EDTA spiked tests show that trace metals do not limit algal growth response. Areal differentiation of the primary limiting nutrient occurred during the course of the summer during Phase I. In the spring the entire reservoir was phosphorus limited but many areas became nitrogen limited over the course of the summer months. During Phase II however, this trend was not observed and phosphorus remained the limiting nutrient throughout the year.

Phytop1ankton

In general, the Lake Seminole phytoplankton counts show what one would expect (Fogg, 1975) in an impoundment system and generally showed the same trends observed during Phase I. During the February and April sampling periods, the water temperature ranged from 7.5° to 22°C. Diatoms made up the largest percentage (88 and 74 percent during February and April respectively) of the phytoplankton association with Melosira distans being the most abundant (Appendix H). Asterionella formosa, which prefers cooler water (Werner, 1977), was also found during these months (Appendix H).

As the water temperature increased during the summer to a maximum of 27 to 30°C during August, there was a shift in the algal plankton association from diatoms which prefer temperatures below 30°C to bluegreen algae which can grow well above 34°C (Werner, 1977). During August, blue-green algae made up 75 percent of the plankton association (Table 9). This compares very well with the results of Phase I during which the blue-green algae made up 76 percent of the plankton association in August and September.

TABLE 9

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUPY SUMMARY OF PHYTOPLANKTON COUNTS BY MAJOR DIVISION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Taxa Cells/ml Percent			•		, :	Cycle 4	,	Cycle 5		Cycle b		Cycle 7	40.
	t	Cells/al Percent	Percent	Ce 115/m]	Percent	Ce 115/m1	Percent	Cells/ml	Percent	[e]13/e]	Proent	Ce 11s/al	Percent
CHLORDPHYTA 6.486	~	13,954	2	25,059	22	25,708	Ħ	24,799	•	24,024	11	22,814	Ħ
QUETSOPHITA 77,009	3	985'901	ĸ	29,626	æ	55,411	23	43,945	16	30,206	21	24,202	Я
Chrysophyceae 565	-	171	•	304	•	195	•	\$	0	281	•	\$	•
Bacillariophycene 76,441	8	106.415	*	29,192	92	55,038	23	43,446	16	29,974	23	24,144	×
CYANDPHTA 3,413	-	21,600	15	57,643	15	159,771	3	206,147	75	89,186	62	27,433	31
EUGLENDPHYTA 129	•	3	•	433	0	202	•	792	•	122	•	22	•
PYRENOPHTA 30	이	160	이	181	이	101	9	162	0	55	9	3	어
TOTALS 87,067	8	142,482	8	112,942	8	241,233	9	275,306	8	143,692	001	74,505	9

Cumulative cell density (Cells/ml) for all stations per cycle. Percent of total cumulative cell density for all stations per cycle. NOTES:

During both Fhase I and Phase II, there were no observed algal blooms of only one or two species. The lack of a definite spring and/or fall phytoplankton bloom may have been the result of the high turbidity in the system since this is a known turnidity effect (Werner, 1977). Instead there was a gradual phytoplankton increase from an average of 4,582 cells/ml in February to 15,299 cells/ml in August (again comparing well with an average cell density of 13,540 cells/ml during August of Phase I). In general, the phytoplankton densities in the Chattahoochee River were higher than in the reservoir during February, September, and December while the reverse was true during the summer sampling periods (Table 10). As noted in the Phase I report, the phytoplankton densities were extremely low at stations 16 and particularly 17. The reason for this is still unknown. Further study upstream of station 17 to mile 37.0 in the Flint River resulted in densities comparable to those at station 17.

Of the diatom species found during both Phase I and Phase II, most were characteristic of water with a pH near 7.0 (Lowe, 1974; Patrick and Reimer, 1966, 1975). Only a few frustules of genera characteristic of low pH (acidic water) such as <u>Eunotia</u>, <u>Tabellaria</u>, and <u>Pinnularia</u> were found. These were probably washed into the system from a tributary or in runoff.

A complete listing of phytoplankton cell densities by taxa at each station is given in Appendix H.

Zooplankton

The results of the Lake Seminole zooplankton counts for Phase II are shown in Appendix I. These results are summarized in Table 11 by major zooplankton groups for each cycle. During Phase II, zooplankton were most abundant during cycle 7 in December with a mean station concentration of 67 organisms/l. As shown in Table 11, the population density was composed primarily of Rotifera during all cycles except 3 and 6. This compares favorably with Phase I during which Rotifera comprised 50-91 percent of the total from July through November.

At stations 16 and 17 on the Flint River there was a marked reduction in zooplankton densities (Table 12) similar to that shown for phytoplankton. Further study upstream of station 17 to mile 37.0 resulted in densities comparable to those at stations 16 and 17. The reason for these low densities is unknown. Zooplankton densities at station 14 on Spring Creek were also lower than densities found throughout the rest of the system. At the reservoir stations, zooplankton were most abundant during the summer months when phytoplankton were also abundant.

ATP Test Results

The ATP concentration from the depth integrated water sample at each station ranged from 20 ng/l to 725 ng/l during Phase II. The highest value was found at station 19 during the June sampling period.

TABLE 10

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

ın t	No. Taxal	22 22 16	24	23	24	25 22	18	35	38 38 38	33	33	5 6	21
Cycle 2 179 - 150 Unit Count	Cells/ ml.	4,963 5,210 7,522	5,443	4,866 7,288	11,745	26,936	15,631	1,742	750 1.866	493		(8,538
Cycle April 2-4, 1979 -	Cells/ Count	332 299 374	364	307	494	618 676	268	373	266 393	285	258	484	441
Apri	Units/ Count	150 156 153	151	153	155	160	153	153	157	152	152	153	151
ount	No.1	16 17 11	20 16	19	200	19	28	40	42 45	34	24	21	18
e 1 - 153 Unit Count	Cells/ r.l.	8,731 5,103 5,837	5,519 7,118	5,020	9,044	9,550	6,689	816 198	421 227	06	54	4,904	2,643
Cycle Feb. 19-22, 1979 -	Cells/ Count	501 400 402	454	413	415	493	435	332 168	198 231	77	09	441	172
Feb.	Units/ Count	153	151	154	151	153 152	151	152	152 152	*99	36*	153	154
	Sta.	01 02 03	000	90 70	90	00 10	22:	77 13	15 15	16	17	81	19

NOTES:

¹See Appendix H. *Less than 150 units counted per sample due to paucity of organisms and much silt in samples. **Not sampled due to boat problems.

TABLE 10 (continued)

LAKE SEMINOLE WASER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	īnu	Cyc.	Cycle 3 1979 - 150 Unit Count	ınt	γιης	Cycle 4 July 16-19, 1979 - 1	l 150 Unit	Count
Sta. No.	Unite/ Count	Cells/ Count	Ceils/ ml.	No. Taxal	Units/ Count	Cells/ Count	Cells/ ml.	No.
01 02	151 151	381 26 4	3,829 2,462	28 30	152 151	636 781	9,238	32 45
03 04	152 156	285 298	4,514 2,597	24 23	154	1,209	23,415 13,078	32 37
05 06	152	512	6,374	18	* * *			
07	153	635	8,972	27	152	874	9,329	35
ස ර	151	654	8,340	33	152	1,384	22,616	32
10	156	372	4,858	42	153	877	19,40/	4.4
11	151	520	11,337	44	152	722	13,017	40
12	151	1,773	7,988	46	153	406	1,307	51
13	151	779	9,700	37	156	925	60,470	27
14	151	585	2,424	25	153	396	2,250	46
1,5	152	957	10,428	43	150	391	14,606	56
16	151	424	407	49	156	408	2,013	43
17	24*	155	138	35	151	322	536	36
18	152	577	9,456	38	153	692	16,758	38
19	153	554	7,063	47	151	493	3,962	44

NOTES:

l See Appendix H. *Less than 150 units counted per sample due to paucity of organisms and much silt in samples. **Samples not collected.

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) TABLE 10 (continued)

	Aug.	Cycle 13-16, 1979	e 5 - 150 Unit	Count	Sept.	Cycle 24-26, 1979 -	6 150 Unit	Count
Sta.	Units/ Count	Cells/ Count	Cells/ ml.	No.	Units/ Count	Cells/ Count	Cells/ ml.	No.
000	160 156	712 1,052 1	17,734 26,200 29,750	22 23 20	150	685 865 761	11,939	37 36 43
900	156 153	853 656	31,862	27	153	753 981	13,122	99 99 99 99
90 07	152 151	789	14,737	400	155	718 680	10,726	37 45
80 03	152 150	880 1,013	9,589 12,038	39 42	151 153	678 418	8,056 3,587	39 37
21	154 160	1,285	19,202 19,716	43 45	152 152	733 641	6,963 7,977	37
12	151	540	755	53	153	424	342	38
14 15	*	4 I 4	23,898	87	150	612 251	1,007	43
15	157	704	18,408	24	153	402	1,482	32
16 17	154	346 377	3,018 2,898	25 11	151	270	3,715 729	9 7
81	152	665	7,716	49	152	695	9,318	36
19	151	1,105	7,602	44	150	767	6,364	40

NOTES:

See Appendix H

^{*}Sample not counted due to excessive flocculent material.

TABLE 10 (continued)

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF PHYTOPLANKTON COUNTS BY STATION FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Dec. 3-6,	Cycle 7 1979 - 150 II	Unit Count	
 Units/ Count	Cells/ Count	Cells/ ml.	No. Taxa1
153	722 648	9,438	39
5	585		37
153	518	•	38
S	434	•	8
വ	445	•	36
9	587	•	32
2	478	•	33
S	648	•	33
2	424	•	39
2	482	•	37
2	439	570	34
2	304	2,409	5 6
2	202	380	36
2	240	752	24
65 *	73	99	5 6
20 *	93	8	17
152	384	3,348	53
153	534	•	32

NOTES:

1See Appendix H
*Less than 150 units counted per sample due to paucity of
 organisms and much silt in samples.

TABLE 11
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF ZOOPLANKTON COUNTS BY MAJOR PHYLA FOR PHASE II
(FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	Cycle Feb. 19	1 22 187-3	Cyc April 2 Organisms/	Cycle 2 11 2-4 11 7-4	Cycle 3 June 6-6 Organisms/	- L	Cycle 4 July 16-19 Organisas/ Fe	- 21 ²	Cycle 5 Aug. 13-16 Organisms/ Pe	2 3 P	Cycle 6 Sept. 24-26 Organisms/ Pe	20 - L	Cycle 7 Dec. 3-6 Organisms/	ن قام
Tore	8	cent	8		8	3	8		2	ğ	200		- 8	1080
PROTOZOA	12,983	ĸ	191	•	•	•	•	•	•	•	~	•	•	•
MIFEM	22,247	3	45,005	2	38,546	a	53,269	6	50,083	3	35,273	45	94,760	*
ATTAINCHOOM	17.110	a	9,023	2	78,527	3	22,426	æ	36,088	3	43,209	\$\$	12,760	z
Chateons (Larva)	6.09	71	4,791	•	25,743	2	3,6	21	13,298	51	21,620	28	11,282	•
Cledears		=	3,978	~	36.36	E	10,800	=	16,699	2	11,933	91	15,701	75
Copepada		-	ž	-	15,417	2	2,962	•	6,092	^	959'6	21	5,777	•
MSC. OTHERS		9	7	어	~	어	의	9	101	7	2	9	٥	9
TOTALS		8	54,238	8	115,075	8	\$6.K	8	86,273	101	78,486	8	127,520	90

Cumulating orgniasm density (organisms/100 l) for all stations per cycle. Percent of total cumulative organism density for all stations per cycle. NOTES:

TABLE 12

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF ZOOPLANKTON ORGANISM CONCENTRATIONS AND NUMBER OF TAXA OBSERVED AT EACH STATION SAMPLED DURING PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

	_	
le 7 3-6	No. Texe	2228881188828782871
ي کي	ino. Org. Taxu	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
24-25	No. Tene	20000000000000000000000000000000000000
Cycle 6 Sept. 24-2	. ę	24888888888888888888888888888888888888
le 5 13-16	Mo. Mo. Org. Texe	28822223852228882
Cyc.	9. 0.43	nanueses in z . E. 22
ile 4 16-13	Toxe	Z222220022222222222
Cycle 4	<u>ئ</u> ئ ۋ	21.28
		22028822288222882
Cyc	140. 140. Org. Taxa	25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54 25.54
Cycle 2 April 2-4	Jose Texa	
Cyc. Agrif	100. Org.	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
cle 1 19-22	Texe2	xxxxxxccxx27x1x007x
Cycle 1 Feb. 19-22	Mo. Org. 1	22 23 23 24 24 24 26 27 60 31 00 31 16
	86.	099 999 999 999 999 999 999 999 999 999

Number of organisms per liter. See Appendix I. Not sampled due to equipment problems. NOTES:

FOR PHASE 11 TABLE 13
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF ADENOSINE TRIPHOSPHATE (ATP) CONCENTRATIONS (ng/1)
(FEBRUARY, 1979 THRCUGH DECEMBER, 1979)

Cycle 7 Dec. 3-6	***	***	***	***	124	162	156	117	200	66	***	40	26	***	***	***	***	***	***
Cycle 6 Sept. 24-26	100	**	88	168	111	37	174	61	***	***	***	374	***	***	***	< 32	· 56	105	***
Cycle 5 Aug. 13-16	30		36	77	92	44	107	117	104	20	62	27	113	33	414	37	30	172	61
Cycle 4 July 16-19	124	85	135	87	<104	151	121	× 53	69	41	99	36	105	43	143	30	< 54	142	92
Cycle 3 June 4-6	171	6	73	105	31	47	33	2	105	78	96	33	137	83	103	<27	<25	26	725
Cycle 2 April 2-4	95	2	97	25	74	09	53	140	68	115	152	** " " "	83	34	47	20	<23	118	105
Cycle 1 Feb. 19-22	75*	*08	100*	*85*	*88	* 09	47	9/	53	144	62	¥98	<32	<21*	<33	<45	·46	61	73
Station	10	20	03	8	05	8	07	8	8	10	11	12	13	14	15	16	17	18	19

*Arrived back at WAR lab unfrozen.

**Not sampled due to boat problems.

***Sample lost during storage.

The ATP results are shown in Table 13. During the last three months of 1979, the liquid scintillation spectrometer was nonoperational and the September and December samples were stored frozen until it was repaired. During this storage period, approximately half of the samples for these cycles were accidently discarded resulting in incomplete data in Table 12.

Comparison of phytoplankton densities (Table 10) to ATP concentrations (Table 13) at each station shows that the numbers correspond very poorly. This is because of the great difference in cell size of the organisms. A diatom such as Navicula cryptocephala may be 40 μ long and 18 μ wide in contrast to a blue-green alga such as Microcyctis incerta which has spherical 1 μ diameter cells making up each colonial unit. Therefore, one Navicula cell would contain a much greater amount of ATP than a Microcystis cell.

Since the test includes ATP from phytoplankton, zooplankton, and bacteria it is reasonable not to expect a good correlation with any one of these separately or with total chlorophyll. Taken all together however, the trend in ATP concentration tends to follow the trends for phytoplankton, zooplankton and chlorophyll. Generally during both Phase I and Phase II, the highest ATP concentrations were found in the reservoir and the Chattahoochee and Apalachicola Rivers. Moderate values were found at station 14 and the lowest values were in the Flint River and at station 12.

Macroinvertebrates

The macroinvertebrate sampling results are summarized in Appendix J. The Chattahoochee River (stations 01 through 07) supports sparse populations of a few species of benthos adapted for a shifting sand environment. These were dominated by <u>Corbicula</u> and turbellarians, with chironomids and oligochaetes being consistently present although in low numbers. The oligochaetes were primarily tubificids and a new species of Enchytraeidae, <u>Barbidrilus paucisetus</u> (Loden and Locy, In press). The Flint River stations (16 and 17) were also characterized by shifting sands, however, the species associations were different. These were dominated by <u>Corbicula</u>, with oligochaetes, chironomids and turbellarians as sub-dominants. The oligochaetes were primarily tubificids and naidids. Benthic macroinvertebrate populations in the Flint River did not exhibit the depressed characteristics recorded for zooplankton and phytoplankton.

The open-water, "reservoir" stations (08, 09, 10, 11, 13, and 15) have substrates composed mostly of silt, clay, and detritus. Here the dominant benthic organisms were <u>Hexagenia</u>, tubificids, and chironomids. <u>Corbicula</u> and <u>Chaoborus</u> were also common.

Apalachicola River stations 18 and 19 were located within a gravel bed, a substrate much more conducive to benthic productivity than the sands and silts of the other stations. Wet weight biomass values here (Table 14) were consistently 2-3 orders of magnitude higher than at all other stations. This area was dominated by <u>Corbicula</u> and

TABLE 14

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF BENTHIC MACROINVERTEBRATE WET WEIGHT
BIOMASS VALUES FOR PHASE II,
FEBRUARY 1979 THROUGH NOVEMBER 1979

		Wet Weight	t Biomass (in	grams)	
<u>Station</u>	Cycle 1	Cycle 2	Cycle 3	Cycle 5	Cycle 7
	Feb. 18-21	Apr. 2-5	June 4-7	Aug. 13-16	Dec. 3-6
01	0.0422	0.247	0.095	0.152	2.74
02	0.0672	0.326	0.047	0.038	0.150
03	0.0548	0.093	0.084	0.155	0.030
04	0.0574	0.066	0.396	3.63	0.017
05	0.0706	2.12	0.090	0.823	0.056
06	0.0430	3.34	3.46	0.404	0.113
07	4.28	0.142	10.9	0.317	0.472
08	0.610	0.178	4.18	5.30	0.730
09	0.433	0.638	5.79	21.0	4.39
10	0.199	0.104	4.44	8.11	5.41
11	0.199	0.309	1.24	0.167	3.20
12	12.4		34.8	11.7	36.7
13	0.162	0.891	119	8.74	4.81
14	1.06	1.22	0.452	1.34	0.572
15	C.300	0.283	24.1	8.80	3.73
16	3.71	11.9	25.8	6.83	5.48
17	0.963	0.040	5.13	0.118	0.226
18	244	963	183	253	595
19	380	221	230	597	501

<u>Potamyia flava</u>. Chironomids, oligochaetes, and turbellarians are also very abundant.

Station 12 was located in a wide, shallow, relatively stagnant area, with a silty sediment high in detribus and dense, submerged aquatic macrophytes. Biomass here was consistently one order of magnitude higher than at the other stations in the reservoir. The dominant benthos were Corbicula, oligochaetes, and chironomids. Hexagenia was present but uncommon. It is likely that macroinvertebrates were much denser here than the benthic data indicate, as the abundant aquatic macrophytes could easily support more macroinvertebrates than the sediments.

Station 14 is similar to the reservoir stations in that it has silty sediments high in detritus and the benthos was dominated by <u>Hexagenia</u>, tubificids, and chironomids, with <u>Corbicula</u> and <u>Chaoborus</u> being common. The number of taxa was much higher, however, possibly due to the very dense submerged macrophytes.

Evenness and Shannon-Weaver diversity values (base 2) were computed for the benthos and are shown in Tables 15 and 16. The data from the three samples collected at each station were combined and the values computed from that. The values ranged from 0.253 to 3.517. Comparisons between stations show that the diversities for the Chattahoochee River stations were relatively low for stations 01 through 07 and ranged from 0.253 to 2.825 with an overall mean of 1.42. The highest diversity was found at station 14 (Spring Creek) and ranged from 2.071 to 3.469 with an overall mean of 2.767. The remaining stations had moderate diversities. Evenness values paralleled diversity; where diversity was relatively high, evenness was relatively high, and where diversity was low, evenness was low. "Biomass" estimates also paralleled diversity values.

Of the total 48 Hester-Dendy artificial substrate samplers placed during Phase II, 41 were recovered (see Appendix J). Similar to Phase I, all but a few supported macroinvertebrate densities of 5,000 or less per square meter. This occurred generally in the Chattahoochee River, the open reservoir, Fish Pond Drain, and Spring Creek, but also occurred in the Apalachicola River during cycles 1 and 2 in late winter and early spring. The remaining samplers retrieved from the Apalachicola River held the greatest macroinvertebrate densities for Phase II Hester-Dendy units. This data is summarized in Table 17. Numbers of taxa tended to be relatively higher during cycle 2. Overall, the greatest numbers of taxa occurred in the Chattahoochee River. Otherwise, the numbers of taxa are remarkably constant, generally being 8 to 10 at all areas for all cycles except cycle 6 in Fish Pond Drain, where a single predaceous dragonfly nymph (Libellula sp.) was found on the sampler.

TABLE 15

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUBY
SUMMARY OF BENTHIC MACROINVERTEBRATE SHANNON-WEAVER SPECIES
DIVERSITY (BASE 2) FOR PHASE II
(FEBRUARY 1979 THROUGH SEPTEMBER 1979)

Means For All Cycles Shannon- Weaver Diversity	1.302 1.148 1.512 1.311 1.187 2.266 2.230 1.925 1.930 2.707 2.264 2.318 2.120 1.394
Cycle 7 (Dec. 3-6) Shannon- Weaver Diversity	1.124 0.647 1.065 1.065 1.467 0.953 2.425 2.376 2.022 2.014 1.654 2.345 1.637 2.247 1.115
Cycle 5 (Aug. 13-16) Shannon- Weaver Diversity	2.288 2.247 1.387 1.979 1.043 2.016 2.712 2.712 1.990 1.473 1.437 2.646 2.538 1.560 0.869
Cycle 3 (June 4-6) Shannon- Weaver Diversity	1.976 2.087 1.834 1.438 1.542 1.965 1.719 1.238 1.949 1.961 2.071 2.623 2.906 2.023
Cycle 2 (Apr. 2-4) Shannon- Weaver Diversity	0.388 0.427 1.232 1.250 1.205 0.884 2.374 1.1689 2.507 1.642 1.642 1.642 1.642 1.689 2.060 2.453 1.476 0.572
Cycle 1 (Feb. 19-22) Shannon- Weaver Diversity	0.735 0.330 1.502 0.420 1.118 0.253 2.545 2.545 2.686 3.517 1.971 3.006 2.462 2.979 0.584
Station	01 03 04 05 06 00 00 11 11 11 11 11 11 11 11 11 11 11

TABLE 16

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF BENTHIC MACROINVERTEBRATE EVENNESS FOR PHASE II
(FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Station	Cycle 1 (Feb. 19-22) Evenness	Cycle 2 (Apr. 2-4) Evenness	Cycle 3 (June 4-6) Evenness	Cycle 5 (Aug. 13-16) Evenness	Cycle 7 (Dec. 3-6) Evenness
01 02 03 04 05 06 07 08 09 10 11 12 13 14 15	0.316 0.165 0.535 0.265 0.482 0.098 0.723 0.636 0.734 0.780 0.809 0.767 0.622 0.721 0.712 0.601 0.750	0.129 0.270 0.439 0.484 0.519 0.342 0.581 0.416 0.659 0.635 0.602 * 0.791 0.738 0.541 0.588 0.673	0.659 0.807 0.710 0.416 0.510 0.486 0.548 0.542 0.612 0.686 0.619 0.694 0.654 0.738 0.874 0.524	0.815 0.801 0.537 0.853 0.348 0.672 0.439 0.737 0.943 0.904 0.663 0.634 0.453 0.738 0.738 0.734	0.562 0.647 0.672 0.567 0.953 0.649 0.632 0.730 0.715 0.875 0.585 0.544 0.478 0.562 0.516 0.560 0.627
18 19	0.208 0.182	0.388 0.165	0.531 0.492	0.479 0.411	0.431 0.508

^{*}Not sampled due to boat failure.

TABLE 17

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARIZED HESTER-DENDY MACROINVERTEBRATE DATA, PHASE II CATEGORIZED 37 LOCATION

iver 19)	Cycle 6	2,000	0	0	16	793	587	15,397	32	18,825	9,412	&
Apalachicola River (Stations 18-19)	Cycle 4	0	63	0	0	8,761	127	28,824	634	38,409	19,204	10
Apalac (Stat	Cycle 2	0	40	0	0	3,670	0	111	88	3,909	1,954	50
r 16)	Cycle 6	*	•	1	•	ı	1	ı		•	ı	ı
Flint River (Stations 15-16)	Cycle 4	8	0	0	468	35	318	16	16	828	858	10
F1 (Stat	Cycle 2	0	127	0	16	11,503	214	183	}	12,131	990,9	34
River 7)	Cycle 6	16	175	0	0	26,034	128	1,179	8	27,540	3,934	24
Chattahoochee River (Stations 1-7)	Cycle 4	16	921	0	ပ	2,143	299	4,112	88	7,947	1,324	25
Chatta (Sta	Cyc Te	0	365	æ	0	10,276	24	159	88	10,920	1,560	53
											meter	
		Turbellaria	Naididae Tubificidae	Corbicula	Cristacea	Cnironomidae	Ephemeroptera	Trichoptera	Misc. Insecta	Total Number of Organisms	Number of Organisms per sq.	Total Number of Taxa

*A (-) indicates that samplers were not recovered.

TABLE 17 (continued)
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARIZED HESTER-DENDY MACROINVERTEBRATE DATA,
PHASE II CATEGORIZED BY LOCATION

Cycle 6	0 0 0 127 316 0 349 0 792	792 8
Spring Creek (Station 14) e Cycle C	1 1 1 1 1 1 1 1	1 1
Sprie (Star Cycle (198 198 198 128 254 24 24 24 28 826	826
in Cycle 6	000000000000000000000000000000000000000	æ ~
Fish Pond Drain (Station 12) Te Cycle Cy	16 119 135 8 8 8 8 8 286	286 9
Fish (Sta	1 1 1 1 1 1 1 1	
ir 13) Cycle 6	0 0 16 3,627 0 802 16 4,461	1,487
Open Reservoir (Stations 9,11,13) ycle Cycle Cyc	96 0 8 532 0 945 8	530 10
Open (Statio Cycle	1,397 0 0 5,366 24 72 24 72 24 6,883	3,442
		meter
	Turbellaria Oligochasta Corbicula Crustacea Chironomidae Ephemeroptera Trichoptera Misc. Insecta	Number of Organisms per sq. meter Total Number of Taxa

NOTE:

Cle Dates Placed: 2/19-22/79 Retrieved: 4/2-4/79 Placed: 6/4-6/79 Retrieved: 7/16-19/79 Placed: 8/13-16/79 Retrieved: 9/24-26/79 Species diversity values were generally moderate to low (Table 18). The Chattahoochee River samplers supported a wide range of diversities, including most of the highest values and some of the lowest. This is probably as much an artifact of the low organism densities as it is an indication of relative environmental health. The remainder of the samplers supported a narrower range of diversities.

Chattahoochee River stations were dominated by midge (Chironomidae) larvae, primarily Glyptotendipes sp. and other filter-feeding phytoplanktivores. Mayfly (Ephemeroptera) larvae, filter-feeding caddisfly (Tricoptera) larvae, and naidid (Naididae) oligochaetes were also present but in moderate to low numbers. Flint River samplers were heavily dominated (95 percent of total number of organisms) by midge larvae, primarily Cricotopus spp. and Thienemanniella xena, which are aufwuchs feeders. Amphipods, mayfly larvae, and caddisfly larvae were also present in significant numbers.

The Apalachicola River samplers were dominated (94 percent of total number of organisms) by midge larvae (primarily <u>Cricotopus</u> spp.) during cycle 2 and by caddisfly larvae (77 percent) during cycles 4 and 6. The caddisfly larvae were composed almost entirely by the phytoplanktivore <u>Potamyia</u> <u>flava</u>. Triclad turbellarians (<u>Dugesia</u>?) formed almost 11 percent of the organisms on the cycle 6 samplers.

The open reservoir stations (9, 11, 13) sampled were dominated by phytoplanktivorous midges (<u>Glyptotendipes</u> sp., <u>Dicrotendipes</u> sp.) and a phytoplanktivorous caddisfly larva (<u>Phylocentropus</u> sp.). Naidid oligochaetes, which feed on aufwuchs, were common during cycle 2.

<u>Macrophytes</u>

Aquatic macrophytes are probably the most conspicuous feature of Lake Seminole. Reservoir personnel have identified over 700 taxa of macrophytes from aquatic situations. Approximately 73 taxa were recorded in this survey to be common to abundant (Appendix M). They cover an estimated 40.1 percent of the area of the reservoir (Table 19). They have become a severe nuisance in many locations such as access channels and boat ramps. The distribution of aquatic macrophytes in

TABLE 18

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY SUMMARY OF HESTER-DENDY MACROINVERTEBRATE SHANNON-WEAVER SPECIES DIVERSITY (BASE 2) AND EVENNESS FOR PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979)

Station	Cycle 2 (Apr. 2-4, 1979) Shannon-Weaver Diversity Eve	2 1979) Evenness	Cycle 4 (July 16-19, 1979) Shannon-Weaver Diversity Even	4 1979) Evenness	Cycle 6 (Sept. 24-26, 1979) Shannon-Weaver Diversity Evenn	1979) Evenness	Means for All Cycles for Shannon-Weaver Diversity
00	2.377	0.608	1.311	0.414	0.620	0.179	1.44
000	1.053	0.453	3.045 2.285	0.779	1.589	0.389	1.90
95	1.432	0.400	2.879	0.756	0.825	0.260	1.71
90	1.803	0.451	2.844	0.822	0.929	0.359	1.86
00	$\frac{2.303}{1.792}$	$0.622 \\ 0.518$	1.604 1.736	0.620 0.748	1.749 0.767	0.753	$\begin{array}{c} 1.88 \\ 1.43 \end{array}$
11	* ! ! ! ! !	1 1 1 t	1.443 2.156	0.621	1.550 0.000	0.775 N/A**	1.50 1.08
13	1.730	0.400	1.186	0.511	1.316	0.567	1.41
15	2.906	0.711	: :		2.210	0./3/	2.56
16	2.386	0.502	1.950	0.587	:	:	2.17
18	1.421	0.364	0.997	0.332	0.590	0.210	1.00
19	0.903	0.231	1.285	0.497	1.192	0.461	1.13

*(---) indicates sampler was not retrieved **N/A indicates an undefined term (E = $\frac{D}{\ln T} = \frac{0.00}{\ln T}$)

TABLE 19

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
COVERAGE OF AQUATIC MACROPHYTES ON LAKE SEMINOLE
CATEGORIZED BY SPECIES ASSOCIATION

Species Association	Acreage	Percent of Total Vegetated Area	Percent of Total Reservoir Surface Area*
Mixed Emergent and Submerged Species	2,805	18.7	7.5
Water Milfoil	8,892	59.3	23.7
Hydrilla	1,561	10.4	4.2
Giant Cutgrass	1,746	11.6	4.7
TOTAL	15,004	100.0	40.1

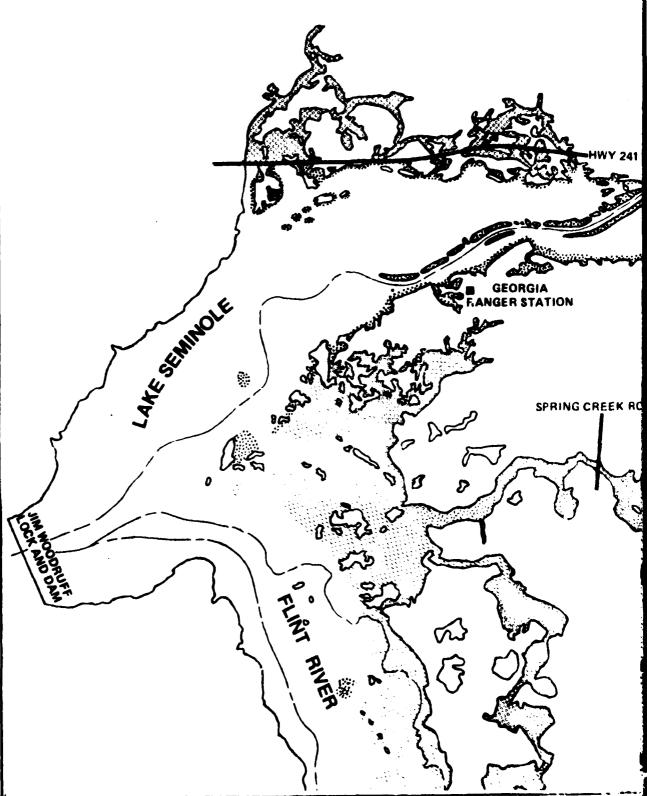
^{*}Surface area of the total reservoir assumed to be 37,500 acres (USACOE.n.d.).

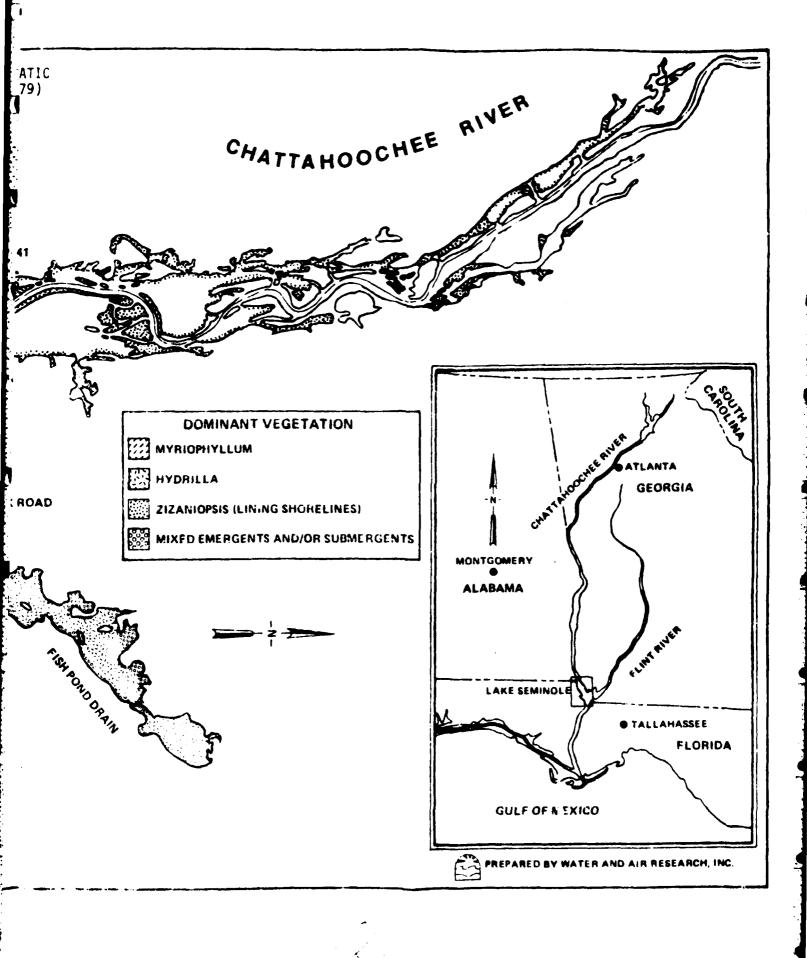
Lake Seminole is shown in Figure 4 and categorized by species association in Table 19.

Submersed vegetation occurs almost everywhere the water is transparent enough to allow sunlight to penetrate to the bottom. Emergent vegetation occurs almost everywhere the water is shallow enough for them to become established. Where the water is too turbid or too deep, floating plants have the putential to become very Intensive spraying of herbicides during 1978 and 1979 kept the floating plants to a minimum. However, in the Flint River where hyacinths were reduced by herbicide spraying, broken patches of floating algal mats were present over large areas. Spraying has also been conducted over the last few years in a number of small access channels and canals. In every instance, though, aquatic macrophytes were quickly reestablished, and by the middle of the following growing season the macrophytes were once again of nuisance proportions. For this reason, and due to the very high costs, spraying has been conducted generally only on selected areas of high cultural use such as boat ramps and access channels. The morphometry of the reservoir and the relatively high nutrient inputs virtually assure that aquatic macrophytes will be a major management problem for the remainder of the reservoir's life.

FIGURE 4. LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY DISTRIBUTION OF AQUAT MACROPHYTES DURING PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979

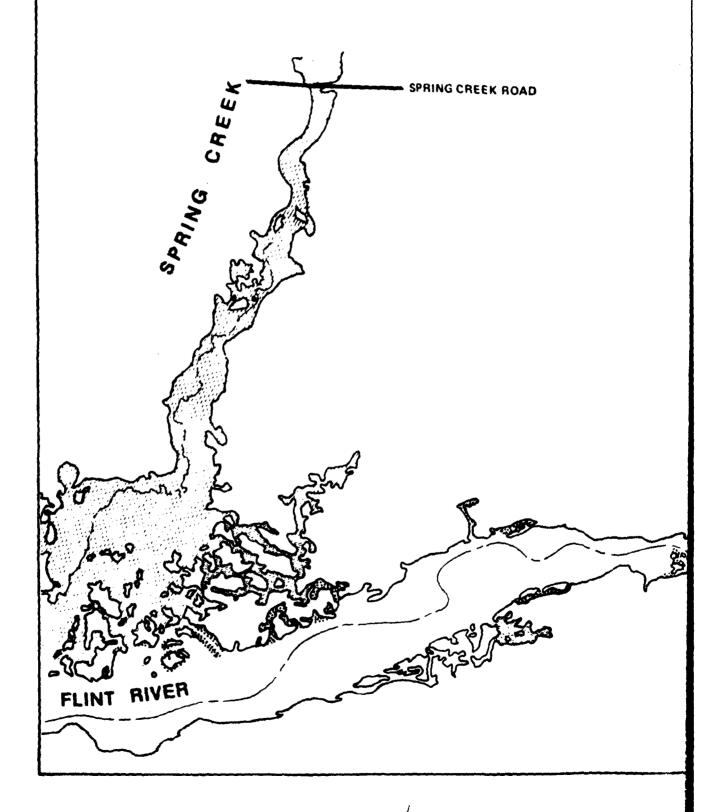
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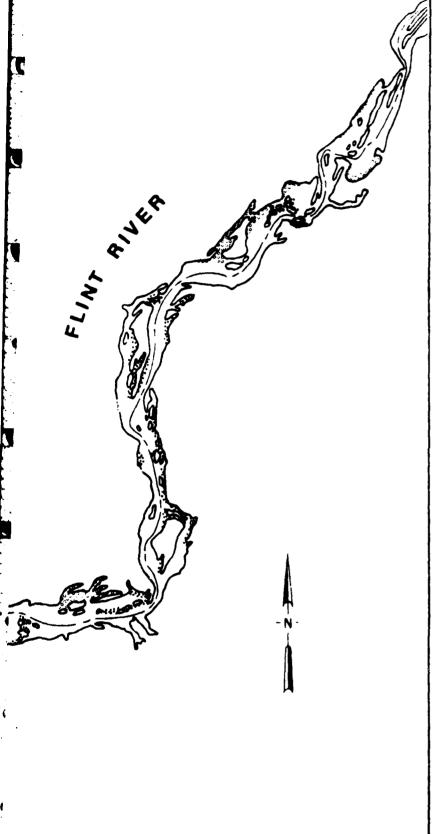




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FIGURE 4. LAKE SEMINOLE WATER QUALITY - ANAGEMENT STUDY DISTRIBUTION OF AQUATIC MACROPHYTES DURING PHASE II (FEBRUARY, 1979 THROUGH DECEMBER, 1979) (continued)





DOMINANT VEGETATION

MYRIOPHYLLUM



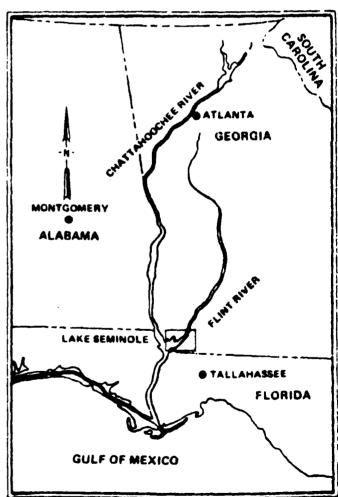
HYDRILLA



ZIZANIOPSIS (LINING SHORELINES)



MIXED EMERGENTS AND/OR SUBMERGENTS





PREPARED BY WATER AND AIR RESEARCH, INC

SUMMARY

The purpose of Phase I and II of the Lake Seminole Water Quality Management Study was the establishment of a comprehensive water quality, sediment, and biological data base at various sites within the impoundment, in the backwater stretches of the major tributaries, and immediately downstream of the outfall on the Apalachicola River. This data base is to be utilized for the combined purposes of future reference, guidance in the improvement of reservoir operations, facilitation of coordination with state agencies in the implementation of watershed pollution control measures, and identification of significant water quality problems.

Meteorological, hydrological, water quality, sediment, and biological data were obtained at a total of 19 main sampling stations in Lake Seminole, the Chattahoochee River, the Flint River, Spring Creek, Fish Pond Drain, and the Apalachicola River during 6 sampling cycles in Phase I (April through November, 1978) and 7 sampling cycles during Phase II (February through December, 1979). Limited sampling and analyses were also performed at 5 special sampling sites at various times during the course of this study. Biological sampling included bacteria, phytoplankton, zooplankton, macroinvertebrates, and aquatic plants.

Average monthly flows through the impoundment during Phase II ranged from 349 m³/sec. during August to 1518 m³/sec. during April. These values compare to a low of 221 m³/sec. during November and a high of 1005 m³/sec. during May of Phase I. During the study period, the Chattahoochee River accounted for 50-80 percent of the flow into the impoundment. As a result of operational procedures at the Walter F. George Lock and Dam on the Chattahoochee River upstream of Lake Seminole, flows through the Chattahoochee River impoundment arm exhibited considerable short term variation.

In general, each of the major impoundment arms of Lake Seminole tended to be well-mixed both laterally and vertically. Little lateral variation and essentially no vertical stratification was observed in temperature, dissolved oxygen, pH, or oxidation-reduction potentials during the April, 1978; August, 1978; February, 1979; or August, 1979 sampling cycles during which extensive in situ sampling was performed. Although surface warming at most lake stations was evident during the summer (June, July, and August), the shallowness of the impoundment prevented the development of a well-defined thermocline.

Average turbidity levels in the Chattahoochee River were approximately two to three times those in the Flint River with suspended solids, Secchi disk, and percent light transmittance exhibiting the same general areal pattern over the course of the study. Specific conductance, total dissolved solids, and alkalinity were lowest at the Chattahoochee River

sites and generally higher on the Flint River during both years of the study. The Chattahoochee River also had lower mean levels of total calcium and total hardness than the rest of the stations. Concentrations of most of the other inorganic water quality parameters, except nutrients, showed no significant areal or chronological patterns. Concentrations of all sampled metals, except iron, were generally low with no obvious areal patterns. Concentrations of total iron at most stations during the spring and early summer months exceeded the EPA criterion of 1.0 mg/l for freshwater aquatic life. In all cases, total iron was composed primarily of insoluble forms.

Total inorganic nitrogen ranged from 0.30 to 0.78 mg/l at Flint River stations to 0.08 to 0.53 mg/l at Chattahoochee River stations. Levels were generally highest in the spring, decreased over the summer, and rose again in the fall. Total phosphorus values were generally much lower during Phase II than during Phase I. During Phase II, all values were between 0.01 and 0.07 mg/l. Dissolved orthophosphate values comprised usually less than 20% of the total phosphate except in the Flint River where it comprised the majority of it.

In general, based on nutrient content, the waters of Lake Seminole tended to be moderate to highly productive with respect to the production of algal biomass. On the basis of potential algal production alone, the system would be classed as eutrophic. During the spring of Phase I, the system was phosphorus limited, with many areas becoming nitrogen limited as the summer progressed. During Phase II however, this trend was not observed and phosphorus remained the limiting nutrient throughout the year. Trace metals did not appear to limit algal growth and no toxicity effects were observed at station 16 near Bainbridge.

Phytoplankton populations were characteristic of a system of this type with no observed algal blooms of one or two species. The lack of a spring and/or fall phytoplankton bloom may have been the result of the high turbidity in the system although a slight peak was observed during April of Phase II. Lowest densities were found during the winter and early spring months after which they increased to an average of approximatly 14,000 cells/ml in August. As the temperatures increased during the spring and summer, there was a corresponding shift in the plankton associations from diatoms to blue-green algae. Phytoplankton densities were generally higher in the Chattahoochee River than in the reservoir during early spring and late fall while the reverse was true during the summer sampling periods.

During both Phase I and Phase II, phytoplankton densities were extremely low at stations 16 and 17 on the Flint River during all sampling cycles. Further study upstream of station 17 to mile 37.0 on the Flint River shows comparably low densities. It is still presently unknown if this is a toxic response or if these low densities are simply normal for the Flint River.

During both phases of this study, zooplankton assemblages exhibited little variation in the number of taxa found at each station during the year. However, zooplankton densities were greatest during September of Phase I (overall mean of 96 organisms/l) and December of Phase II (overall mean of 67 organisms/l). The Rotifera were the most abundant organisms at each station during most of the sampling cycles.

At stations 16 and 17 on the Flint River there was a marked reduction in zooplankton densities similar to that shown for phytoplankton. Generally, station 17 had fewer organisms than station 16. Further study upstream of station 17 to mile 37.0 resulted in densities comparable to those at stations 16 and 17. The reason for these low densities is unknown. Zooplankton densities at station 14 on Spring Creek were also lower than throughout the rest of the system. Reservoir station densities were highest during the summer months when phytoplankton were also abundant.

The bacteriological quality in Lake Seminole during Phases I and II ranged from good in the upper Chattahoochee River stations and at the lake stations where fecal coliform levels were generally below 100/100 ml, to poor at station 17 in the Flint River in the vicinity of Bainbridge where fecal coliform concentrations in excess of 2,500/100 ml were observed during June of Phase I and above 1,400/100 ml during February of Phase II. The fecal coliform to fecal streptococci ratios tend to indicate that human sources of contamination predominated in the Flint River and agricultural sources predominated in the Chattahoochee and Apalachicola Rivers.

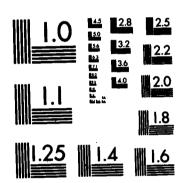
ATP concentrations t used to follow the same general trends as phytoplankton, zooplankton, and chlorophyll. However, due in part to differences in total biomass, only a poor correlation existed between individual assemblages. The highest concentration (725 $\mu g/l$) was found during June of 1979 at station 19. The reason for the high value at this station is unknown. During both Phase I and Phase II the highest concentrations were generally found in the reservoir and the Chattahoochee and Apalachicola Rivers. Moderate values were found at station 14 and the lowest values were in the Flint River and at station 12.

Bottom sediments ranged from relatively clean sands in the Chattahoochee, Flint, and Apalachicola Rivers to sand and sandy loams in the impoundment itself. The organic and nutrient contents tended to be related to the percent fines. Heavy metals concentrations were generally low. The concentration of most of the pesticides analyzed were below detectable limits, although levels of PCB Aroclor 1254 and p,p-DDE were detected at a number of sites with the highest PCB level (64 $\mu g/kg$) at station 19 and the highest DDE level (5.4 $\mu g/kg$) found at station 14 during Phase II. Although no detectable levels of 2-4D were found during Phase II, levels as high as 569 $\mu g/kg$ (station 03) were found during Phase I.

Benthic macroinvertebrate populations tended to be closely associated with the nature of the supporting substrate. Chattahoochee and Flint River stations exhibited sparse populations adapted to a shifting sand environment, although the species associations were dissimilar. Lake stations supported populations adapted to a substrate composed of finer sands, silts, and clays. The sampling sites in the Apalachicola River were characterized by a coarser, more productive substrate. Benthic diversities ranged from relatively low in the Chattahoochee River to moderate in the Flint and Apalachicola Rivers with the diversities in the reservoir varying seasonally from moderate to low, with lowest diversities occurring towards late summer. Evenness and biomass tended to closely parallel diversity. Corbicula were collected during August of both Phase I and II. However, they were found in sufficient quantity for complete analyses at only two stations during Phase I and at one station during Phase II. In all samples, the levels of mercury and chlordane (the only analyzed chemicals for which FDA Action Levels have been established) were below the FDA Action Levels.

Aquatic macrophytes constituted the most conspicuous feature of Lake Seminole. They were a severe nuisance in a number of locations such as access channels and boat ramps. Emergent and/or floating macrophytes covered over 40 percent of the total reservoir surface area and nearly 100 percent of the surface area with a depth less than 2 meters. Approximately 73 taxa were identified during this study as being either common or abundant.

AD-A123 446 WATER QUALITY MANAGEMENT STUDIES LAKE SEMINOLE FEBRUARY-DECEMBER 1979 PHASE II(U) WATER AND AIR RESEARCH INC GRINESVILLE FL DEC 82 ACF-80-11 DACM01-78-C-0101 F/G 8/8 2/8 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

RECOMMENDATIONS FOR FUTURE STUDIES

The following are areas which deserve consideration for future studies.

1. Macrophytes

Aquatic macrophytes are well established on over 40 percent of Lake Seminole, and cover almost 100 percent of the portion that is less than two meters deep. Since the macrophytes are not limited by nutrients or grazing, it is likely that they will continue to increase in extent until blocked by riverine currents or water too turbid to transmit sunlight. Even then, expansion may continue although at a reduced rate, since siltation continues to slowly fill the reservoir. Also, aquatic vegetation increases the rate of siltation (and organic matter deposition), thus increasing the rate of macrophyte expansion. Through this process, aquatic macrophytes may eventually cover the entire lentic portion of the reservoir.

This situation is a result of several factors: (1) The reservoir is generally very shallow, and in most places the water is sufficiently transparent to allow insolation to penetrate to the bottom of the water column. (2) The availability of nutrients to macrophytes from upstream sources is essentially unlimited. (3) The number of macrophyte species is so diverse, that even if a "perfect" herbicide could be developed to completely eliminate a species from the reservoir, there are dozens of species that would be able to quickly invade and repopulate the area. This is readily borne out by the experiences of reservoir personnel (D. Vickers, pers. comm.), where choked access channels were sprayed one year for Species A, and the following year they were choked with Species B.

Past management practices have been limited to small areas of high user demand due to the high economic costs. In 1978, for example, about 1,080 acres were sprayed or chopped for an estimated total cost of \$76,095 (see Table 20). In 1979 and 1980, a total of 1,430 acres were treated for a cost of \$213,190, an average cost of \$149 per acre. Reservoir personnel had requested more than twice that amount in order to spray 5,050 acres (\$100 per acre). Reservoir personnel are now asking for \$300,000 to treat 2,000 acres (\$150 per acre) in 1981. By way of reference, the total reservoir surface area is estimated to be 37,500. Should the whole of the infested portion of Lake Seminole be treated at an average cost of \$150 per acre, the total cost would be approximately \$2,250,000.

Clearly, these expensive measures can provide only temporary relief from the symptoms of greater problems. It is quite possible that a more lasting and less expensive solution(s) exists. Water

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
SUMMARY OF COSTS INCURRED AND ACREAGES TREATED FOR AQUATIC
MACROPHYTE CONTROL, 1978 TO 1981

Treated ¹			Treatment Proposed	
Year	Acreage		Acreage	1
1978	1,080	76,095	NA ⁴	. NA
1979	50	206,070 ¹	2,000	195,700
1980	1,380	7,1203	3,050	309,525
1981	•	••	2,000	300,000

 $^{^{1}\}mbox{Treatment}$ includes herbicide sprays, herbicide pellets, and mechanical chopping.

²These funds were spent on herbicides at the end of 1979; the acreage was subsequently treated in 1980.

³Airplane rental only.

⁴Not Available.

level drawdowns, for instance, have proven very beneficial in various lakes in Florida. The Lake Seminole Reservoir is a far more complex system physically than the average lake, however. A combination of several kinds of treatments may be necessary in this shallow, nutrient-rich and most botanically diverse reservoir.

2. Intensive Study of Flint River

Analysis of the data, throughout Phase I and Phase II, identified a marked reduction in phytoplankton, zooplankton, chlorophyll, and ATP levels in the Flint River at miles 24 and 29 (stations 16 and 17, respectively) near Bainbridge, Georgia. It would appear that the river is continuously stressed from a source upstream from station 17 unless the Flint River naturally has low plankton densities. Since station 17 represents the northern extremity of the present study, the limits of these conditions were not defined. The cause of this stress is unknown, but it does not appear to be physical in nature -- no gradients were observed with temperature, dissolved oxygen, conductivity, or pH from stations 15 through 17. Further study upstream of station 17 to mile 37.0 on the Flint River during the December 1979 sampling cycle resulted in plankton densities comparable to those at station 17. Further study should be conducted to determine the cause, extent, and magnitude of this possible environmental impact, which is identified by the plankton density decreases.

PARTICIPATING STAFF

A project team of engineers, biologists, chemists, and technicians conducted the study. The overall project manager was Dr. J.H. Sullivan, Jr., with the assistance of Mr. B. Bailey, Mr. R. Blum, and Mr. J. Nichols in logistics, data analysis, and field activities. Dr. H. D. Putnam served as coordinator and advisor for the biological activities. Mr. M. Hein and Mr. B. Pruitt were responsible for the field and in-house biological efforts with the assistance of Ms. P. Dickinson and Charles Markum.

Mr. B. Bailey and Mr. M. Hein were responsible for the coordination of field water quality sampling and reporting. Analytical procedures were supervised by Ms. C. Hackett, Dr. M. Keirn, and Ms. M. Schultz with the assistance of Mr. G. Burch, Mr. S. Hall, Mr. L. Larson, Ms. M. Neves, Mr. P. Nathanson, and Mr. M. Timpe. Dr. M. Keirn and Mr. M. Hein coordinated the Algal Growth Potential test work. Mr. J. Nichols supervised and coordinated all the computerized data handling with the assistance of Mr. M. Timpe and Ms. K. Barnes. Field personnel included Mr. B. Bailey, Mr. R. Blum, Mr. S. Chamberlin, Mr. M. Hein, Mr. B. Pruitt, Mr. M. Putnam, and Mr. M. Timpe.

The final copy was produced by Ms. J. Dorsey, Ms. D. Nickelson, Ms. J. Nyland, Ms. C. Hoffenberg, and Ms. P. Paschall.

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APPENDIX A STREAM FLOWS

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TABLE A-1
STREAM FLOWS - MONTHLY AVERAGES (CFS)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
February	18,772	11,470	1,807	40,390
April	29,986	13,013	1,021	53,595
June	7,449	3,598	N/A	14,262
July	5,197	3,820	504	12,464
August	6,263	2,682	298	12,324
September	6,177	N/A	452	14,832
December	7,631	3,908	491	15,136

NOTE: N/A = Data not Available

Source: 1 USGS, Water Resources Division, Doraville, GA

TABLE A-2
DAILY AVERAGE STREAM FLOWS (CFS)
(CYCLE 1)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
February				
11	5,460	2,470	1,870	34,227
12	15,352	2,350	1,430	31,573
13	15,400	1,720	1,050	35,419
14	13,213	1,900	900	36,652
15	10,804	1,780	848	32,838
16	11,611	1,650	813	27,732
17	0	1,840	785	21,683
18	ň	1,760	756	16,624
19	5,796	1,700	714	17,526
20	9,354	2,230	766	16,567
21	18,708	1,990	824	23,047
22	28,928	2,340	982	40,685
23	31,172	2,180	1,200	47,737
24	44,255	2,060	2,090	63,298

Source: ${}^{1}\text{USGS}$, Water Resources Division, Doraville, GA

TABLE A-3
DAILY AVERAGE STREAM FLOWS (CFS)
(CYCLE 2)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
M anada		•	•	
March	. •	7 540	ž 000	04 477
25	0	7,540	1,020	24,477
26	10,621	7,970	1,070	20,604
27	11,996	8,160	998	24,545
28	12,042	8,310	835	25,793
29	5,274	8,080	738	26,823
30	19,379	7,640	698	24,670
31	0	6,940	663	19,812
April				
1	40	6,240	654	16,595
Ž	8,113	5,570	646	16,435
2			643	20,303
3	13,883	6,170		
4	28,219	6,140	716	31,293
4 5	53,575	7,650	1,110	55,851
6	52,935	8,810	1,610	71,996

Source: 1USGS, Water Resources Division, Doraville, GA

TABLE A-4 DAILY AVERAGE STREAM FLOWS (CFS) (CYCLE 3)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
May				
27	244	3,580	N/A	13,725
28	6,291	3,160	N/A	12,969
29	6,038	3,790	N/A	12,247
30	6,154	4,760	N/A	11,860
31	6,224	3,990	N/A	12,179
June				·
1	17,216	4,540	N/A	13,464
2	10,948	4,740	N/A	21,350
3	0	4,480	N/A	22,742
Ă	11,534	4,600	506 P	17,864
5	12,667	5,050	479	19,312
2 3 4 5 6 7	12,737	5,070	429	19,264
7	12,716	5,110	398	19,171
8	12,729	5,020	368	23,873

NOTE: N/A = Data not available
P = Daily summary is for incomplete day

Source: 1 USGS, Water Resources Division, Doraville, GA

TABLE A-5
DAILY AVERAGE STREAM FLOWS (CFS)
(CYCLE 4)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
July				·
8	40	2,700	284	10,339
9	8,558	2,420	411	10,187
10	8,654	3,650	417	10,122
11	8,707	4,100	409	9,292
12	4,992	4,190	476	9,660
13	1,128	4,160	662	9,306
14	81.	4,510	796	8,421
15	40	4,570	785	8,699
16	4,479	4,060	705	9,193
17	6,100	3,710	694	9,702
18	5,588	3,910	557	10,945
19	3,142	4,080	449	15,372
20	5,611	4,020	574	14,584
21	5,276	4,420	766	12,932

Source: 1USGS, Water Resources Division, Doraville, GA

TABLE A-6
DAILY AVERAGE STREAM FLOWS (CFS)
(CYCLE 5)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ^l Creek at Milford, GA	Jim Woodruff Lock & Dam
August	•			•
5	41	3,300	368	11,998
6	6,646	2,690	337	12,076
7	8,034	3,130	349	12,074
8	7,979	3,180	358	11,867
8 9	8,016	3,070	304	11,683
10	7,992	2,860	269	13,262
11	82	2,720	251	14,067
12	41	2,460	232	13,975
13	8,283	2,180	236	12,280
14	8,489	2,050	268	11,855
15	8,458	2,030	245	11,923
16	8,626	1,990	219	11,926
17	8,580	2,080	208	11,934
18	122	2,050	206	11,884

Source: ¹USGS, Water Resources Division, Doraville, GA

TABLE A-7 DAILY AVERAGE STREAM FLOWS (CFS) (CYCLE 6)

		·	•	
	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
September		•		
16	. 0	N/A	391	12,644
17	7,108	N/A	405	12,871
18	7,229	N/A	482	12,387
19	7,025	2,800 P	592	13,489
20	10,658	3,430	622	12,479
21	8,706	3,250	525	13,271
22	82	3,350	443	14,091
23	0	2,810	457	12,285
24	7,013	3,540	502	12,029
25	7,116	4,380	488	12,186
26	7,138	6,080	612	13,324
27	7,075	6,890	806	18,838
28	14,333	6,750	1,010	30,442

NOTE: N/A = Data not available
P = Daily summary is for an incomplete day

Source: 1 USGS, Water Resources Division, Doraville, GA

TABLE A-8
DAILY AVERAGE STREAM FLOWS (CFS)
(CYCLE 7)

	Chattahoochee River At George Lock & Dam	Flint River ¹ at Newton, GA	Ichawaynochaway ¹ Creek at Milford, GA	Jim Woodruff Lock & Dam
November				
25	0	2,480	388	16,852
26	14,592	2,690	414	17,168
27	14,654	4,730	480	17,189
28	17,896	5,830	545	17,559
29	17,788	6,010	551	21,811
30	17,962	5,020	499	26,397
December				
1	7,165	5,650	449	23,180
Ž	41	3,790	421	16,710
3	12,092	4,020	407	16,764
4	12,096	5,390	402	16,627
5	13,367	5,260	398	16,846
5 6	16,013	4,330	409	22,279
7	17,639	4,140	475	26,458
8	10,675	5,170	581	26,069
ğ	81	4,820	657	17.107

Source: 1 USGS, Water Resources Division, Doraville, GA

APPENDIX B
METEOROLOGICAL DATA

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TABLE B-1

** LAKE SEMINOLE WATER OUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 1 (2/19-22/1979)
MISCELLANEOUS DATA

PARAMETER NAME (UNITS)	STATION 01 2/21/79	STATION 02 2/21/79	STATION 03 2/21/79	STAT 10N 04 2/21/79	STATION 05 2/21/79	STATION 06 2/21/79	STATION 07 2/20/79
HETEDROLOGICAL DATA							,
* AIR TEMPERATURE (DEG C) CLOUD COVER (PERCENT) WIND VELOCITY (MPH) ** MIND DIRECTICN (DEG FM TRUE N. CW)	0.0	0 % 0 0 % 0 0 % 0	100 100 100 100 100 100 100 100 100 100	100. 100. 120. 120.	000 = 000 = 000 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 +0 +0 + 1 ±00
ETER NAME (CN	STATION 08 2/20/79	STATION 09 2/20/79	STATION 10 2/20/79	STATION 11 2/20/79	STATION 12 2/22/79	STATION 13 2/19/79	STATION 14 2/22/79
METFORDLOGICAL DATA							
• AIR TEMPERATURE (DEG C) • CLOUD COVER (PERCENT) • WIND VELOCITY (MPH) • WIND DIRECTION (DEG FM TRUE N• CM)	0 • 0 0 • 0 • 0	0 • 0 0 mon	0.00 G	0.0	0.00	0 • 8 0	150.5 7 - 5
PARAMETER NAME (UNITS)	STATION 15 2/19/79	STATION 16 2/19/79	STATION 17 2/19/79	STATION 18 2/20/79	STATION 19 2/20/79		
METEOROLNGICAL DATA							
AIR TEMPERATURE (DRG C) CLOUD COVER (PRECENT) WIND VELCCITY (MMH) WIND DIRECTION (DEG FM TRUE N. CW)	2 no 0	8 .0 .0 .0	0 • 0 a	00 00 00	0.0		

TABLE 8-2

CORPS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II, CYCLE 2 (4/2-4/1979)

MI SCELLANEOUS DATA

**************************************	•	*/ *//	4/4/79	4/4/79	4/4/79	4/ 4/79	1, 3/79
METEOFOLDGICAL BATA							
AIR TEMPERATURE (DEG C) CLOUD COVER (PERCENT) WIND VCLOCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	0.0 0 •0.0 0 •0.0 0 •0.0 0	0.00 0.00 0.00 0.00	N NSI 7500 8 NS O	0.00	0 0 0 0 0 0 0 0	0 *0 *00 MOO N=	0 * 0 * 0 0 * 0 0 N = 0
PARAMETER NAMT (UNITS)	87A110X 000 47 479	97A710N 009 4/ 3/79	STATION 10 4/ 2/70	STATION 1110N 1110N	STATION 13 4/ 2/79	STATION 14 4/ 2/79	8TATION 15 4/2/79
METEOPOLGGICAL DATA							
AIR TEMPEPATURE (DUG C) CLOUD COVER (PERCENT) WIND VELCCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	0 • 0 • 0 • 1	0 • 0 • 0 • 1 • 0 • 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 • 0 C	0 .8 0 904 =	0 0 0 1000 1000 1000	20 R. C
1 02	STATION 16 4/ 2/79	STATION 17 4/ 2/79	STATION 18 4/ 3/79	STATION 19 47 5779			·
METEGROLOGICAL DATA							
AIR TEMPERATURE (DEG C) CLOUD COVER (PERCENT) WIND VELCCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	8 % O	84	# # # # # # # # # # # # # # # # # # #	0.00 0 100 0 N==			•
CATA	0 - M - 0	M	27.00 1000.00 1000.00		0 · 0 · 0	0.00	0.00

TABLE B-3

CORP. OF EMGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II. CYCLE 3 (6/4-6/1979) MISCELLANEDUS DATA

) 6377 (646)	STATION 01 67 6770	514710N 02 6/ 6/79	STATION 03 6/ 6/79	STATION 04 6/ 6/79	STATION 05 6/ 6/70	STATION 06 5/ 6/79	STATION 07 6/ 5/79
MINISTER DATA							
Air Truscharung (DES C) (Lous COVEN (Princent) Nikh Velenity (Princent) Nikh Velenity (Princent)	000 000 000 000 000	0.0	-40 -000	U 10.0 0 .0 0	C . C	0.c .c.	M4V =
	***********	9 P P P P P P P P P P P P P P P P P P P				3 8 9 9 9 9 9	
PAPANTTED NAME (BUITS)	STATION 67 S/79	STATION 09 6/ 5/79	STATION 10 6/ \$/79	STATION 11 6/5/79	STATION 12 6/ 6/70	STATION 13 6/ 4/79	STAT ION 14.79
METERTLOSICAL BATA							
Alo Tribinition (DES C) CLOUG COVID (Incorekt) MINO VILIGITY (MOH) MINO OTHER (COL)	0 • C • C • • C •	orc 6	0 · 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	74 8 9 8 0 9 0	0 · 8 · 0 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6	280 000 000 000 000	6 0 4 0 0 6
"ARAITTE :JAVE (UNITS)	87A710N 15 6/ 4/79	STATION 16 6/ 4/79	STATION 17 6/4/79	STATION 18 6/5/79	STATION 19 6/ 3/79		
Worthorn, Datral, Bata							
AID TOUGHTON TOUGH CO. C.	6 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0 .00.1	6 0 1 6 0 1	0 . c		

TABLE B-4

COMPS OF ENGINEERS (CONTRACT DACMO1-78-C-0101) PMASE II. CYCLE & (7/16-19/1979)

MISCELLANEOUS DATA

STATION 01 7/19/79	STATION 02 7/19/79	STATION 03 7/18/79	STATION 04 7/18/79	STATION 05 07/18/79	STATION 06 1/18/79	STATION 07 7/18/79
N N N N O O O O O	10.00 20.00 20.00	0 • 8 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6	0.00 8000 N=	0 • 0 • 5 • 0 • 5 • 0 • 5 • 0	0 • N 0	0 - 80 - 0 - 0 - 0 - 0 - 0 - 0 - 0
STATION	STATION	STATION	STATION	STATION	STATION	STATION
777779	97/1/1	en.řiv.	7/11/19	7/18/79	7/16/79	7/16/79
80 0 0 0 0 0 0 0	0 • 0 • 0 • 0 • 0	0 • 0 9 = 0	M M M M M	0 · 8	0 .0 4 e 0	M 0.00 0.00
		1	300	06		300
STATION 15 7/16/79	STATION 16 7/16/79	ST AT 10N 17 7/16/79	STATION 18 17777	STATION 19 1/17/7		
0 % 0 0 - 00 0 - 00 0 - 00	0 • 10 0 M • N N	0.0 MNO	0.0 •0.0	400.0 7.00.0		
	35.0 55.0 200 200 7/17/79 35.0 20.0 0.0 0.0 15.79 7/16/79	• • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • •	35.0 10.0 10.0 22.0 7/17/7 34.0 60.0 60.0 60.0 7/16/79 7/16/79	35.0 28.0 100. 2.5 2.5 220 2.5 220 2.5 100. 7/17/79 7/17/79 34.0 35.0 10.0 60.0 0.0 60.0 0.0 10.0 0.0	35.0 28.0 100. 100. 100. 100. 100. 100. 100. 1	34.0 28.0 28.0 28.0 28.0 10.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

CORPS OF ENGINEERS (CONTRACT DACWSI-78-C-0101) PHASE II. CYCLE 5 (8/13-16/1979)

PARAMETER NAME (LNITS)	57.47.1014 8.15.79	STATION 02 8/15/79	STATION 03 6/15/79	874110N 04 8/15/79	STATION 8/18/79	STATION : STATION 01 5/15/10 6/15/19	STATION 0770 0/14/79
METERNOLOGICAL DATA							
AIF TEMPERATURE (DEG C) CLCLC CGVEF (PERCENT) NIND VELCTITY (MPH)	O .O O O	0 · 0 · 0	0.0	0 0 1	0 •0 0 •0 • • •0 n m	0.00 0 NWW N	0.0 10.1 10.1
FAMETER NAME CUN	STATION 06 8/14/79	\$7.4710\\ 09.8714779	STATION 9/14/70	ST AT [ON 1 1 1 1 1 1 1 1 1	STAT CON 12 0/16/77	STATION 13 9/13/79	STATION 14 6/15
METF DRCLOGICAL DATA							
AIR TEMPERATURE (DEG C) (LCUC CCVEP (PERCENT) WIND VELCCITY (MPH) ** NIND DIFFCTION (DEG FM TRUE N. CW)	0 % 0 % 0 %	m ·m ·c no· · · · no · · · ·	0 • 0 0 • 0 0 0	0 • 10 · 0	0 °C 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 •0 •0 • ! •0 • !
PARAMETER NAME (WITS)	STATION 15 8/13/79	STATEUN 16 16 18/13/79	87 AT 10N	STATION 18 9/14/79	STATION 19 8/14/79		
WETEOFOLOGICAL CATA						• • • • •	
AIR TEMPERATURE (DEG C) (LOUG COVER (PERCENT) WIND VELCCITY (MPH) WIND DIRECTION (DEG FM TRUE N. CW)	80 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mac 1	0.0 6no	0.0 0 .0.0 n	0 • 0 • 0 • • 0 •		

TABLE B-6

CORPS OF ENSINEERS (CONTRACT DACMOI-78-C-0101) PHASE II. CYCLE 6 (9/24-26/1979)

MISCELLANECUS DATA

PAFANETER NAME (UNITS)	STATICN 01 9/26/79	STATIUN 02 9/26/79	STATION 03 5/26/79	STATION 04 9/26/79	STATION 05 9/26/79	STATION 06 9/26/79	STAT ION 07 9/25/79
METEDROLOGICAL DATA							
~	27 000 000	200 200 300 000	20 20 20 20 30	0.0	0.00		0 · 0 ·
INU DIRECTION (DEG FM TRUE N. CW)		01	0 7			07	9
PARAWETER NAME (UNITS)	STATION 08 9/25/79	STATION 00 9/25/79	STATION 10 9/25/79	STATION 11 9/25/79	STATION 12 9/24/79	STATION 13 9/24/79	STATION 14 9/24/79
METEDROLOGICAL CATA							
EMPERATURE (DEG C) : COVER (PERCENT) VELOCITY (MP!)		0 · S · S	101 1000 1000	0 · 80	700. 700. 8.00.	0 • N 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 -10
WIND DIRECTION (DEG FM TRUE N. CW)	•	0	0	0	on I	D	Š
PARAMETER NAME (UNITS)	STATION 15 9/24/79	STATION 16 9/24/79	STAT 10N 17 9/24/79	STATION 18 9/25/79	STATION 19 9/25/79	:	
. METEOFOL SGICAL BATA						•••	
AIR TEMPEFATURE (DEG C) (LEUD COVER (PERCENT) WIND VELOCITY (MMI) NIND DIRECTION (DEG FM TRUE N. CW)	0.00	0.00	N≃ 800 9.0 0	%- 000 000 4	0.8	•	
						ı	

TABLE B-7

CORPS OF ENGINEERS (CONTRACT DACWOI-79-C-0101) PHASE II. CYCLE 7 (12/3-6/1979)

HI SCELLANEDUS DATA

PARACTER NAME (UNITS)	STATION 12 5/79	\$7471 OK 12 02 12 5 779	STATION 03 12/ 5/79	STATION 04 12 / 5 / 79	STATION 95 12/ 5/70	STATION 12, 6/70	STATION 07 12/ 6/70
METEOROLOGICAL DATA							
AIR TEMPERATURE (DEG C) CLOUD COVER (PERCENT) WIND VELOCITY (MPH) WIND DIRECTION (DEG PR TRUE N. CR)	0.0 0.0 0.0 0.0 1	D • 10 0	0.0 0 0.0 0	0.00	6-W -	• • • • •	930
PAAMETER NAME (LAITS)	87 AT 10M 08 12 6/79	8 TATE 09 09 07 04 04 04 04 04 04 04 04 04 04 04 04 04	87 AT 100	STATION 11 12/5/79	51AT10W	STATION 13 STATE	STAT 100 12 3/70
METEONOLOGICAL DATA							
AIR TEMPERATURE (DEG C) CLOUD COVER (PERCENT) WIND VELOCITY (MPH) WIND DIRECTION (DEG FR TRUE N. CW)	6.0 .0. .00	0.0 0 400 A	0.00	0.00	0.0 0		9.00 A
PARAMETER MANE (UNITS)	81A710M 15 12/ 3/79	8 14 1 04 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATION 17 12/ 3/70	STATION 12 4/79	STATION 12/ 4/3		
MITGOROLOGICAL DATA							·
AIR TERMENAME (DEG C) CLOUD COVER (PERCENT) WIND VELDCITY (MMI) WIND DIRECTION (DEG FN TRUE N. CW)	0.0 G	W · W · O		n.o g			

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C-7	In Situ Data, Cycle 7,	C-80

TABLE C-1a

CORPS OF ENGINEERS (CONTRACT DACHOL—T8-C-0101) PMASE II. CYCLE MATER GUALITY SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION 01 2/21/79	STATION 2/21/79	STATION 01 2/21/79	STATION 01 2/21/79	STATION 01 2/21/70	STATION 2/21/79	STATION 01 2/21/79
MOROLOGICAL DATA							
TOTAL DEPTH (METERS) MANE MEIGHT (METERS) CUMPFINT SOEED (FP.3)		8 11	311	000	211	211	0
MISCELLANCOUS DATA	.01	2	0	on i	• n		 60
SAMPLE DEPTH (MITTERS) SECCTI DISK TRANSPAPENCY (METERS) DEPTH OF 1% SURFACE LIGHT (METERS)			; ; ;	9 8	1 1	1 1	: :
~ £	6. 8.1	 	18.4	111	7.01		
OXIDATION REDUCTION POTENTIAL THE DISSOLVED OXYGEN. ELECTRODE (MG/L) PF (STD UNITS)	12.6	12.7	12.9	!!	12.8 7.10	71.0	7.00

TABLE C-1b

PARAMETER NAME (UNITS)	STATION 01 2/21/79	STATION :	STATION 01 2/21/79	STATION 02 2/21/79	STATION 02 2/21/79	STATION 02 2/21/79	STAT 10N 02 2/21/79
MORCLOGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CURRENT SYEL) ("FF;) PHYSICAL DATA HISCELLANEOUS DATA	<u></u>	:	211	%	9	o n!!	900 10 m
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	•n	00-1	0001	80 0 1	0 - 1 0 - 1	, o	N 1 0
DEPTH OF 1% SURFACE LIGHT (METERS)	!	!	;		!		
WATER TEMPERATURE (DEG C) SPEC CCHDUCTANCE, FLD (UNHO/CH 25C) OXIDATION RECUCTION POTENTIAL (MV)	8.10	63.	66.5	901	000		111
DISSOLVED CXYGEN, ZLECTRODE (MG/L) ! PH (STD UNITS)	1.00	12.8	7. 000 000	7.10	6:2:	7 - 10	11

TABLE C-1c

PARAMETER NAME (UNITS)	STATION 02 2/21/79	87ATION 82,21/79	87AT10M 8/21/76	STATION 02 2/21/79	81ATION 02 2/21/19	STATION 02 2/21/79	STAT [ON 03 2/21/79
HYDRDLDGICAL DATA							
TOTAL DEFTH (METERS) NAVE HEIGHT (METERS) CURFELL SPECO (FPS) PHYSICAL DATA	e i i	2 11	3 11	: ::	; ;;	; ;;	9
* MISCELLANGOUS GATA							••
* X-SFCTION LOC (XFRCM R-BK LK UPST) * SAMPLE DEPTH (MFTERS) * SECCHI DISK TRANSPARINCY (MFTERS)	on noi	•0 9-1	.0	.n.	9-1	*0 6n;	• • • • • • • • • • • • • • • • • • •
. DEPTH OF 1% SURFACE LIGHT (METERS)	•		1	1	!	1	
FIELD MEASUREMENTS WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXICATION REDUCTION POTENTIAL (MV) DISSOLVED DXYGEN, GLECTRODE (MG/L) PH (STD LNITS)	00 00	70 101 100 101	201 Ut	901 9	0. 0. 401 NI	0. 10 0.1 0.	0 . 90 • 9

TABLE C-1d

PARAMETER NAME (UNITS)	STATION 03 2/21/79	STATION 03 2/21/79	STATION 03 2/21/79	STATION 03 2/21/79	STATION 03 2/21/79	STATION 03 2/21/79	STATION 03 2/21/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	0	o • •	000 .00 .00 .00 .00	.	0	211	0 11
* MISCELANGOUS DATA * X-STCTION LOC (XFRCW R-BK LK UPST) * * SAMPLE OLPTH (MITERS) * * SECCHI DISK TRANSPARBACY (METERS) *	:01	.041	910	•m 0••1 no•1	85 m l	801 0 • 1	*** • • • •
OEPTH OF 1% SURFACE LIGHT (METERS)	1	;	A	1		;	
** WATER TEMPERATURE (DEG C) ** SPEC CONDUCTANCE, FLD (UMMOZEM 25C)** OXIDATION REDUCTION POTENTIAL (MV)	861	7 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 · 6 ·	;;;	001	0.00	0 4	001
DISSOLVED DXYGEN, ELECTRODE (MG/L)	0.61	13.1	!!	7.10	7.10	7.10	7.10

TABLE C-1e

PARAMETER NAME (UNITS)	STATION 03 2/21/79	STATION 03 2/21/79	STATION 04 2/21/79	STATION 04 2/21/79	STATION 04 2/21/79	STATION 04 2/21/70	STATION 04 2/21/79
V -RCLDGICAL DATA							
TOTAL JEPTH (METERS) MAVE HEIGHT (METERS) CURHENT SPEED (FRS) PHYSICAL DATA	0	911		• • •	0 0 0 1	000 • •	0 1 1
MISCALANEOUS DATA X-SECTION LOC (XFROM R-BK LK UPST) SANDLE DEPTH (MITCHS) SECCHI DISK TRANSPARENCY (MLTERS)	*0 0 * ! 0 * !	*Q O * I O * I	•n	9-1		# 10 0) •	00 I
DEPTH OF 1% SURFACE LIGHT (METERS)	1	;		1	1	:	}
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV) DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UMITS)	001 7	100 i	0 00 00 00 00 00 00	0+1 m1	44 148 00 00 00 00 00 00 00 00 00 00 00 00 00	111 11	0.00

TABLE C-1f

PARAMETER NAME (UNITS)	STATION 04 2/21/79	STATION 04 2/21/79	STATION 04 2/21/79	STATION 04 2/21/79	STATION 04 2/21/79	STATION 05 2/21/79	STATION 05 2/21/79
MDROLDGICAL DATA							
TOTAL DEPTH (NETERS) WANT HEIGHT (NETERS) CURRENT SPEED (FPS) PHYSICAL DATA	6 11	0	911	9 11	011	0	911
MI SCELLANGOUS DATA	, •			. • •	•		
X-SECTION LOC (XFROM R-BK LK UPST) (SAMPLE DEPTH (NETES) (SECCHI DISK TRANSPARENCY (METERS)	1.00	. O	• M 0 • I 0 0 I	001	•0 0 • 1 0 • 1	• F	001
DEPTH OF 1% SURFACE LIGHT (METERS)	1	!	!	1	:	1	!
FIELD MEASUREMENTS	•	• •			. •		
WATER TEMPERATURE (DEG C) SPEC CONDUCT ANCE, FLD (UMHO/CM 25C)* OXIDATION REGUCTION POTENTIAL (MV)	67.0	24.0	0 • • 0 • 0	991	0.00	0.01	0001
DISSOLVED DXVGTN, FLECTRODE (MGZL) PH (STD UNITS)	12.9	7.00	13.1	13.1	13.1	12.2	12.4

TABLE C-19

PARAMETER NAME (UNITS)	87 A7:0N 2/21/79	81ATION 05 2/21/79	STATION 05 2/21/79	81ATION 05 2/21/79	814110N 05 2/21/79	STATION 05 2/21/79	STATION 0.5 2/21/79
HYEROLOGICAL DATA							
TOTAL DEPTH (METERS) MAVE HEIGHT (METERS) CLARELT SPECT (F PS) PHYSICAL DATA	o •!! •!!	000 •0• •0• •0• •0•	•i!	o *!!	0	0	011
X-SECTION LOC (XERON R-BK LK UPST) SAMPLE DEPTH (MYTERS) SECCHI DISK TRANSPARENCY (MYTERS) DEPTH OF 1% SURFACE LIGHT (METERS)	•0	. n .	.n	**************************************	•0 0•1 1	•M O • I I O • I	00 0 -
FIELD MEASUREMENTS ***********************************	00 00 00 00 00 00	111 11	0. NO	00 No	001 N-	00 100 00 100 00 100	001 N1

TABLE C-1h

PARAMETER NAME (UNITS)	STATION 05 2/21/79	STATION 06 2/21/79	STATION 06 2/21/79	STATION 06 2/21/79	STATION 06 2/21/79	STATION 06 2/21/79	STATION 06 2/21/79
MOROLOGICAL DATA							
TOTAL DEPTH (METTRS) LAVE HEIGHT (MCTERS) CURRENT SPEC (FPS) PHYSICAL DATA	;;;	908 918 90	••••••••••••••••••••••••••••••••••••••	3 11	o •!!	0	0
X-SECTION LOC (MFPOW R-BK LK UPST) SAMPLE DEPTH (METCRS) SECCHI DISK TRANSPARINCY (METCRS) DEPTH OF 1% SURFACE LIGHT (METERS)	•0 8#;	N 10 -	•m	90-1	001 I	•m 0 • 1 0 • 0	**************************************
FIELD MEASUREMENTS NATER TEMPERATURE (DEG C) SPEC CCNDUCTANCT: FLD (UMMO/CM 28C) CXIGATION RECUCTION POTCHTIAL (MV) DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	12 188		12 188 12 100 12 100	75 100 001 100 001 100	7 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	80 00 001 -00 001 -0	881 41 801 01

TABLE C-1

PARAMETER NAME (UNITS)	STATION 06 2/21/79	STATION 2/20/79	STATION 07 2/20/79	STATION 07 2/20/79	STATION 07 2/20/79	STATION 07 2/20/79	STAT ION 07 2/20/79
PYDROLDGICAL DATA	• • •						
TOTAL DEPTH C. STERS) BAVE WEIGHT SPELD (FRS) CLARETT SPELD (FRS) PLYSICAL DATA	0 11	911	, i	000	o 6	• • •	
** ** ** ** ** ** ** ** ** ** ** ** **	•0	9	. N I	9:0	8-1 0-1	84 i	001
OEPTH OF 1% SURFACE LIGHT (METERS)	!	1	!	•	1	1	!
WATER TEMPERATURE (DEG C) SPIC CONDICTANCE, FLD (UMHD/CM 28C) OXIDATION REDUCTION POTENTIAL (NV)	0 ·	0 • 0	0 .0 	111	0.0	0.0	0.00
DISSOLVED DXYGEN. ELECTRODE (MG/L)	12.4	40	900	11	7.40	 	10

TABLE C-1

ŝ	STATION 007 2/20/79	STATION 07 07 2/20/79	STATION 08 2/20/79	STATION 08 2/20/79	STATION 06 2/20/79	STATION 09 2/20/79	STATION 09 2/20/79
HYCROLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HFIGHT (METERS) CURPENT SPEED (FFLS) PHYSICAL DATA	0	0 N	00 •01 m•1	e	0	on •01 ••1	•!!
* MISCELLANGOUS DATA ** X-SECTICN LOC (MFROM R-8K LK UPST) ** SAMPLE DEPTH (METERS) ** SECCHI DISK TRANSPARENCY (METERS) **	.n 601	86-1-1-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	8 0 0 1 0 0 0	90-1	% ! % !	0 1 0 4 1 3	**************************************
	1	;	s:	•		10 **	;
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C). OXIDATION PECUCTION POTENTIAL (MV)	10.0 91.	95°8	111	0.0	6 0 4 0 0 0	111	6 4 4 0 00 0 00 0 00
DISSOLVED DXYGEN. ELECTRODE (MG/L)	1000	10.4	11	7.50	7.40	11	7.60

TABLE C-1k

/#####################################	2/20/10	87ATI ON 00 2/20/79	81ATION 10 2/20/79	STATION 2/20/79	87ATION 2/20/79	2/2079	2/20/79
MORCLOGICAL DATA	••••					;	
TOTAL DEPTH (METPRS) MAVE WEIGHT (METGRS) CURRENT SPEED (FPS)		0	on •0: ••i	211	0	• • ! !	• • • • • • • • • • • • • • • • • • • •
. MISCELLANGOUS DATA	• • •	• • •			••	••	
* X-BECTION LOC (MPROM R-BK LK UPST) * 40.0 SAMPLE DEPTH (MITHER) 5.0 * SECCHI DISK TRANSPARENCY (METERS) * 11.0	•	40 i	910	3 :;	en!	•••	
• • •	•••	!	L:3	;	:	.	6
TIRLO MEASURGENINTS	• •	••					
SPEC CONDUCTANCE, PLD (UMHD/CM 25C)* 50-0 CAIDATICN RECOVERY 50-0 CAIDATICN RECUCTION POTENTIAL (MV) 4-4-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	8 · ó	# .0 .09	;; ;	0 • 0 • A • A	# · o	# *0 •07 50 4	:::
	P 0	10.0	11	•••	111.20	40 11.	!!

TABLE C-11

PARAMETER NAME (UNITS)	STATION: 2/20/79	STATION 111 2/20/79	STATION 2/20/79	\$TAT10N 12 2/22/79	STATION 12 2/22/79	STATION 12 2/22/79	STATION 2/22/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	0 */ */		2 11		0 •!!	NOO •0 • •0 •	N 1
X-SCCTICN LOC XFROM R-DK LK UPST) SAMPLE DISTINATIONS ARBINCY (METERS) SECONT DISK TRANSARBINGY (METERS)	001	00 00 1	0.1	eno;	•0 0 • M=1	• N (•n ••! •••!
THE THE PROPERTY OF THE PROPER						N .	
SPEC CONDUCTANCE, FLO (UMMO/CM 25C) OXIDATION RECOCTION POTENTIAL (MV) DISSOLVED OXYGEN, ELECTRODE (MG/L)	0.0 MO	00 00 00 00	0.00		701 01	111 11	

TABLE C-1m

PARAMETER NAME (LANTS)	STATION 12 2/22/79	STATION 12 2/22/79	STATION 12 2/22/79	STATION 12 2/22/79	STATION 13 2/19/79	8TATION 2/19/79	STATION 13 2/19/79
MPROLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE MEIGHT (METERS) CURNENT SPEED (FPS) PHYSICAL DATA	211	%11	\$0 \$1.1	en Oli	00	011	911
HI SCELLANEOUS DATA					• •		• •
X-SECTION LDC (MFROM R-BK LK UPST) SAMPLE DEPTM (4772RS) SECCHI DISK TRANSPARZNCY (METERS)	%-:	 	9-1		9.0	8-1 0-1	901
£	1	1	1	1	ip -	1	;
FIELD MEASUREMENTS		•		• •			••
MATER TEMPERATURE (DEG C) SPEC CCNNUCTANCZ, FLD (UMHO/CM 25C) CXIDAT: CN PECUCTION POTENTIAL (MV)	9.00	10.00 07.0	98.	000	111	0.00	9 N 4
DISSOLVED DXYGEN, FLECTRODE (MG/L)	7.00	10.2	10.2	0.01	11	7.0.7	1000

TARLE C-1n

FARAMETER NAME (UNITS)	STATION 13 2/19/79	STATION 14 2/22/79	STATION 14 2/22/79	STATION 14 2/22/79	STATION 14 2/22/79	STATION 14 2/22/79	STATION 14 2/22/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) LAVE HEIGHT (METERS) CUMPENT STLED (FPS) PHYSICAL DATA	011	2 11	; 11	211	100 N 0	er N i i	S
MISCELLANEOUS DATA "X-SECTION LOC (XFROM R-BK LK UPST) "SAMPLE DEPTH (METERS) "SECCHI DISK TRANSPARENCY (METERS)	0001	en en en en	•0 % • 1 M • 1	90 90 90	910	•n	90 0 • I 10 = 1
DEPTH OF IX SURFACE LIGHT (METERS) . FIELD MEASUREMENTS	1	;	•		20.5	1	:
MATER TEMPLRATURE (DEG C) SPEC CCNDUCTANCE, FLD (UMHO/CM 25C) OXIDATION ACTION FOTENTIAL (MV) DISSOLVED GXYGEN, ELECTRODE (MG/L) PM (STD UNITS)	984 98 984 98 980 68	9	0.01 61 0.01 61	001 01 001 01	111:11	0 • 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	0.01 1.00 1.00 1.00 1.00

TABLE C-10

	STATION 14 14 2/22/79	874T10N 14 122779	8TATION 14 2/22/79	STATION 2/22/79	STATION 15 2/19/79	\$74710N 15 2/19/79	87 AT 10N 15 2/19/79
MDRCLOGICAL DATA							
TOTAL DEPTH (METERS) MANG MEIGHT (METERS) CUMRENT STECN (FPS) PHYSICAL DATA	n .!!	o ni i	0	, i	000	?::	: :::
MISCELLANGOUS DATA	• •	• • •		. • (•	
* X-SCCTION LDC (XFROM R-BK LK UPST) * GO * SAMPLE DEPTH (MITTINS) * 1. * SCCCHI DISK TKANSPARRICY (METERS) *		, n	*0	000		00-1	901
	!	;	1	1		;	;
FIELD MEASUREMENTS	••	• •	•	• •	•		,
* WATER TEMPERATURE (DEG C) * 13. * SPTC CENDUCTANCE, FLD (UMMO/CM 25C)* 176 * DXIDATION REDUCTION POTENTIAL (MV) *	76.	176.	176.0	176.0	111	n •0	
	7:	<u> </u>	e i		!!	7.70	10.2

TABLE C-1p

PARAMETER NAME (UNITS)	STATION 2/19/79	STATION 16 2/19/79	STATION 2/19/79	STATION 16 2/19/79	STATION 2/19/79	STATION 16 2/19/79	87ATION 16 2/19/79
MOROLOGICAL DATA							
MAVE HEIGHT (METERS) MAVE HEIGHT (METERS) CURRENT SHEED (FPS) PHYSICAL DATA	•	0 #11		on •01 •01	3 11	•!!	011
X-MET ION IOC (METERS) SAMPLE DEPTH (METERS) SACCPI DISK TRANSPARENCY (METERS)	•0 0 • 1 9 m 1	.0 .0	N 4 1	910	n-1	90 I	.0 .0
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	1	•	1	1	!
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: "LO (UMHO/CM 25C) OXIDATICE REDUCTION POTENTIAL (MV) DISSCLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40 40 40 40 40	00 00 00 00 00 00 00 00 00 00 00 00 00	111 11	001 0. 001 0.	01 00	001 05 001 00

TABLE C-19

TOTAL DEPTH (METERS) LUANT: HEIGHT (METERS) LUANT: FORCE (FPS) LUANT: SCELLANGOUS DATA X-SECTION LDC (METERS) SAMPLE DIGNTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	3 11	00			
0 1 80 1 10 0 0 1 10 0 0 1 1 0 0 1 1 0 0 1 1 0 1 0 1 1 0 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0 1 1 0	3 11	001.0			
		0	211	211	0 N
124	• •		••		• •
	00 in i		 	000	8-1 8-1
:	!	2.7	!	1	;
SENERGE MENDER OF SELECTION OF	••	••	••		
SPEC CONDUCTANCE, FLD (WHMA/CM 25C): 10.5 GXIDATICN RECUCTION POTENTIAL (MV)	000 001 001	!!!	27.	n • • • • • • • • • • • • • • • • • • •	5.01
000	7.80	11	000.	7.90	100.

PARAMETER NAME (UNITS)	STATION 16 2/20/79	STATION 2/20/79	STATION 18 2/20/79	STATION 16 2/20/79	STATION 16 2/20/79	STATION 18 2/20/79	STATION 18 2/20/79
HYDFOLGGICAL DATA							
TOTAL DEFTH (WETERS) WAVE HEIGHT (METERS) CUNDENT 3/MED (FPS) PHYSICAL DATA	:	?	; 11	00 •01 #•1	w (o o i i	0 11
MISCELLANEDUS CATA X-SECTION LOC (MFRCM R-BK LK UPST) SAMPLE DEDTH (AFREM R-BK LK UPST)	•n •••	• C • C • C	*0 0 * 1 ## 1	91	## #10	8-1 0-1	n 4 1
OFFIX OF 1X SURFACE LIGHT (METERS)	1 1		1		1		
WATEN TEMPORATURE (DEC. C.) SPEC CONDUCTANCE: FLO (UMHO/CM.25C.) OXIDATION FEDUCTION POTENTIAL (MV)	44.0	94.	140	111	0.1	671	941
DISSULVED DXYGEN. FLECTRODE (MG/L)	7.40	11.2	7.30	1;	11.	4.	7.40

TABLE C-1s

PARAMETER VAME (UNITS)	STATION 16 2/20/79	STATION 18 2/20/79	STATION 16 2/20/79	STATION 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79
HYDROLOGICAL DATA	•••						••••
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CUNNERST SPEED (FPS)	0	•	911	· : : :	o i	ni!	00% 800 800
PHYSICAL DATA	• • • •				• • • •		
* X-SECTION LOC (MFROM R-BK LK UPST) * SAMPLY DEDTH (MFTLRS) * SECCHI DISK TRANSPARENCY (METERS)	•m	100	901	•M 0 • 1 m 0 1	001	•0	òiò
DEPTH OF 1% SURFACE LIGHT (METERS)	· · · · ·	1	1	!	1	;	••••
WATER TEMPERATURE (D) SPEC CONDUCTANCE (USHMO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	041	0 t	0.00	73.0	740	0.1	:::
DISSOLVED OXYGEN, ELECTRODE (MG/L)	7.20	***	71100	7.20	7.20	7.20	

TABLE C-11

PARAMETER NAME (UNITS)	STATION 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79	STATION 19 2/20/79
HYDROLOGICAL DATA						
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURPENT STEED (FPS) PHYSICAL DATA MISCELLANEOUS DATA	0	0		0 1	o ii nii	0 !!
X-SECTION LOC (MFROM R-OK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS) DEPTH OF 1% SURFACE LIGHT (METERS)	em	•0 •1 •1	.0	.m 0 1 1	.0 0-1 0-1	.0 0 1 1 0 N 1 1
FIELD MEASURMENTS WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C) OXIDALION REDUCTION POTENTIAL (MV) 015SOLVED OXYGEN, ELECTRODE (MG/L) PH (510 UNITS)	9 5 1 1 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0 4 60 0 4 60 0 4 60	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00 00 00 00 00 00	40 40 80 80 80

TABLE C-2a

the LAKE SEMINDLE WATER DUALITY MANAGEMENT STUDY 44 CORPS OF ENGINEERS (CONTRACT DACMOILT8-C-0101) PHASE II. CYCLE 2 (4/2-4/1979) WATER QUALITY SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION 01 4/4/19	STATION 01 4/ 4/79	STATION 02 4/ 4/79	STATION 02 4/ 4/79	STATION 03 4/ 4/79	STATION 03 4/ 4/79	STATION 04 4/4/4
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) MAVE METGHT (METERS) CURRENT SPICEO (FPS) PHYSICAL DATA	000 9.4 0	0 1	0 9	• • • • • • • • • • • • • • • • • • •	00m	211	00m
MISCELLANGOUS DATA * X-SECTION LOC (XFROM R-BK LK UPST) * SAMPLE DEPTH (MITERS)	30.	80 0	91	.0°1	91	.00 -00	
SECCHI DISK TRANSPARENCY (METERS)		; ;	7 sp	1 1	7 6		9
FIELD MEASUREMENTS ***********************************	111	NN 1	111	0.4 i	111	0 • • • • • • • • • • • • • • • • • • •	111
DISSOLVEC DXYGEN, ELECTRODE (MG/L)	11	7.20	!!	7 . 10	;;	7.20	11

TABLE C-2b

15)	STATION 04 4/4/4	STATION 05 4/ 4/79	STATION 05 47 4/79	STATION 06 4/ 4/79	STATION 06 4/ 4/ 4/ 79	STATION 07 4/ 3/79	STAT ION 07 4/ 3/79
MPRCLOGICAL DATA	• • • • • • • • • • • • • • • • • • •						
TOTAL DEPTH (METERS) CURRENT SPEED (FFS) PHYSICAL DETA	• •	0 0 N	o il l	0 N N	•	000	011
	% 0	. IU	0 • 1 • 0		%-1	• • • • • • • • • • • • • • • • • • •	n-1
* DEPTH OF 1% SURFACE LIGHT (METERS) * FIELD MEASUREMENTS	1		1	•	1	0	<u> </u>
SPEC CCNDUCTANCE: FLD (UMHD/CN 25C)	58.	111	0.00	111	0.001	111	17.0 7.00.
• DISSOLVED DXYGEN• ELECTRODE (MG/L) • FM (STO UNITS)	7.20		7.30		7.20		7.30

TABLE C-20

4	STATION 407 44 3/79	STATION 07 4/ 3/79	STATION 47 3779	STATION 07 4/ 3/79	STATION 08 4/3/79	STATION 08 4/ 3/79	STATION OB A/ 3/79
HYDRCLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT S-LED (FP.5) PHYSICAL DATA	0 1 1	•!! •!!	• •	•	0 0 0 0 0 0	o • ! ! • ! !	0 11
Ž Č	001 001	•0 ••! •••!	81.1 0.1	00 (• 9 01• m10	•0 ••! •••!	001 001
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	1	1	9	;	;
WATER TEMBERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION FEDUCTION POTENTIAL (MV) OISSOLVED OXYGEN, ELECTRODE (MG/L) PM (STD LNITS)	17.0 400 7.30 7.30	F84 0.		0.00		0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 + 0 +	14 67. 0 420. 0 420.

TABLE C-2d

PARAMETER NAME (UNITS)	STATION 08 4/ 3/79	STATION 090 4/3/78	STATION 09 4/ 3/79	STATION 09 4/ 3/79	STATION 09 4/ 3/79	STATION 10 47 2779	STATION 10 4/2/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) "ANF HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	o nii	9011	6 11	•	•11	0 • 11 • 0 • 10 • 0	ν. - ! !
MISCELLANZOUS DATA X-SECTICN LOC (WFPCN R-BK LK UPST) SAMPLE CEPTH (MFTERS) SECCHI DISK TRANSPARENCY (METERS) OEPTH OF IX SURFACE LIGHT (METERS)	*O	010 m	9-1 1	*0 0 * } mm { }	00.11	910 -	0 N-
FIELD MEASUREMENTS WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION PEDUCTION POTENTIAL (MV) DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STC UNITS)	17.0 91.0 7.20 7.20	111 11	38. 742. 390. 300. 130.	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.00 0.00 0.00 0.00	11: 1:	1800

TARIF C_20

PARAMETER NAME (UNITS)	STATION 11 4/3/79	STATION 11 4/ 3/79	STATION 11 4/ 3/79	STATION 11 47 3/79	STATION 13 4/ 2/19	STATION 13 4/ 2/79	STATION 13 4/ 2/79
MYDRCLOGICAL DATA					•••	•••	
TOTAL DEPTH (METERS) MANC HEIGHT (METERS) CURRENT SPEED (FPS)	000 •M• •0		:::	911	000	011	• •
PHYSICAL DATA		•••		• • • •	• • • •		• • • •
MASSECTION LOC (KPROM R-8K LK UPST) SAMPLE DEPTH (MITTERS) SECCHI DISK TPANSPARENCY (METERS)		80-1 0-1	80 i	60 N I	• •	0-1	on!
DEPTH OF 1% SURFACE LIGHT (METERS)	8. 1	;		!	7.0	!	:
FIELD MEASUREMENTS ***********************************	111	0 •0 0 0 0 0 0 0 0 0 0 0	90 P	88 0.00 0.00	:::	90n 0.0	600 600 600 600 600
DISSOL VED CXYGEM. FLECTRODE (MG/L) PH (STD UNITS)	!! ••••	7.10	7.10	4.10	11	900	00000

TABLE C-2f

PARAMETER NA	STATION 13 4/2/79	STATION 13 4/ 2/79	STATION 13 4/ 2/79	STATION 14 4/ 2/79	STATION 14 4/ 2/79	STATION 15 4/ 2/79	STAT 10N 15 4/ 2/79
MYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	0 11	611	•	N00 N00	N II	660 .N. M. G	0 1 m 1
MISCELLANEOUS DATA X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METSHS) SECCHI DISK TRANSPARENCY (METERS)	90,1	44 0.1	••• •••	2 1 20	901	91-	9-1
DEPTH OF 1% SURFACE LIGHT (METERS)	!	1	!	N		N. 2	1
** WATER TEMPERATURE (DEG C) ** SPEC CONDUCTANCE, FLD (UMMD/CM 25C) ** OXIDATION REDUCTION POTENTIAL (WV) ** DISSOLVED OXYGEN, ELECTRODE (MG/L) ** PH (STC UNITS)	800 00 000 00 000 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	901 61	111 11	0.0 00 0.0 00	111 11	20°00 1005 20°00 7°9°8

TABLE C-2q

PAR	STATION 15 1 2/79	STATION 16 4/ 2/79	STATION 16 4/2/79	STATION 17 4/ 2/79	STAT 10N 17 4/ 2/79	STATION 18 4/ 3/79	STATION 18 4/3/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (MITERS) CURRENT SPEED (FIRS) PHYSICAL DATA	0	000 n •0	O	000	w	0 • N • N • N	
* MISCELLANDUS DATA * X-SECTION LOC (XFROM R-BK LK UPST) * SAPPLE DEPTH (METERS) * SECCHI DISK TRANSPARENCY (METERS)	000		80 1	0 -	.0 .0	. o.	o () 10 ()
DEPTH OF 1% SURFACE LIGHT (METERS)	1	9°n	!	* n	!	N N	;
WATER TEMPERATURE (DEG C) SPEC CONDICTANCE, FLD (UMMOZEM 25C) OXIDATION PEDUCTION POTENTIAL (MV) DISSOLVED OXYGEN, ELECTADDE (MG/L) PH (STD UNITS)	111 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	111 11	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		113. 116. 7.9. 1.6. 9.0. 1.6.	111 11	0. 40

PARMETER NAME (UNITS)	STATION 19 4/ 3/79	STATION 19 4/ 3/79
HYDRGLOGICAL DATA		
TOTAL DEPTH (METERS) WAVE HIGHT (METERS) CURRENT SPEED (PPS)	000 •N• •N	3 11
PHYSICAL DATA MISCELLANEOUS DATA		
X-SECTION LOC (MENDE R-BK LK UPST) SAMPLE DEPTH (METERS) SECCTI DISK TRANSPARHNCY (METERS)	8 I O	8-1 0-1
	2.0	1
FIELD MEASUREMENTS "AATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNHO/CM 25C)* OXIDATICN REDUCTION POTENTIAL (MV)	111	0.101
DISSOLVED DXYGEN. PLECTRODE (MG/L) . PF (STD UNITS)	11	7.80

TABLE C-3a

••••

CDRPS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II, CYCLE 3 (4/4-6/1979)

WATER QUALITY SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION 01 6/ 6/79	STATION 01 6/ 6/79	STATION 6/ 6/79	STATION 02 6/ 6/79	81ATION 03 6/ 6/79	8TAT10N 03 6/6/79	STATION 04 6/ 6/79
HYDROL.DOICAL DATA	. 2 2 3 4 5 7 7 7 7 7						
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPIED (M/S) PHYSICAL DATA	≎00° 'n. '0°		000 n . di	o n	aco n. e.n.	o dil	4 .u 4 .u 90.
MISCELLANGOUS DATA X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEFTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	0.10		810	.0 0 : 0 ₽ - 1		.0 1.0 1.0	010
DEPTH OF 1% SURFACE LIGHT (METERS)	1.3	1	.	1	6 0	!	n
WATER TEMPERATURE (DEG C) SHEC CONDUCTANCE, FLD (UMMO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	111	97. 0.:	111	6. 6.	111	84. 0	111
DISSOLVED OXYCEN, ELECTRODE (MO/L) , PH (STD UNIFS)	11	6.90	11	7,70	11	7.8 6.90	11

TABLE C-3b

PARMETER NAME (UNITS)	STATIUN 04 5/ 6/79	STATION 05 6/ 6/79	STATION 05 6/ 6/79	STATION 06 6/ 6/79	STATION 06 6/ 6/79	STATION 07 6/ 5/79	STATION 07 6/ 5/79
HYDROLCGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHI (METERS) CURRENT SPLED (M/S) PHYSICAL DATA	e	000	.	n.o. 004	o 611	000	0.11
HISCELLANEOUS DATA		. :	•	•			
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	9-:} 0-:}	810	8-1 1	0 1 0	8-:1	81°	 9-1
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1.9	!	1.9	1	# · ·	:
FIELD MEASUREMENTS				• •			. •
WATER TEMPENATURE (DEG C) SEC CONDUCTANCE, FLD (UMBO/CH 25C) OXIDATION REINCTION POTENTIAL (MV)	0 % 1 %	111	66.0	111	61.0	111	84 0.00 0.00
DISSOLVED OXYGEN, ELECTRODE (MG/L)	B. 5 7.00	11	7.00	11	6.90	11	7.30

TABLE C-3c

HYDROLDGICAL DATA	• • • • • •			6/ 3/79	6/ 36/74 (6/ 36/74	6/20/9	6/ 8/79
		 ! !					
TOTAL DEPTH (METERS) UNIVE HEIGHT (METERS) CURRENT SPEED (M/S) PHYSICAL DATA		<u>o</u> ll		0.11	00r m.o	o #11	o
SAMPLE DEPTH (METERS) 30.	• • • •	 	.0.1	.O.	010		000 I
DEPTH OF 1X SURFACE LIGHT (NETERS)		!	1		80	1	!
MATER TEMPERATURE (DEG C) SPEC CONDUCTIONCE, FLD (UNHO/CH 25C) SYLOND STORY (MV) 300	••••	0.0	310	110	111	9969 996. 0.0	0.00 70.00
	•••	4 0	101	6. 40	11	7 . .0. .0.	6.80

PARAMETER NAME (UNITS)	STATION 007 6/ 5/79	87ATION 00 67 5/79	8TATION 09 6/ 5/79	STATION 09 6/ 5/79	STATION 10 6/ 5/79	STATION 10 6/ 5/79	STATION 6/ 5/79
HYDROLDGICAL DATA	1						
TOTAL DEPTY (METERS) UAVE MEIGHT (METERS) CURRENT SPIED (M/S)	4.0c	n ∉∏	n 	ຫ ∵!!	000 50 000 000	×:!!	×11
MINGELLANEOUS DATA							
X-SECTION LDC (XFROM R-BK LK UPST) (SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	310	8-:¦	.o neil	.O.	810 4	8l	.O 0.1 0.1
DEPTH OF 1% SURFACE LIGHT (METERS)	당 -	1	1	1	e 	1	1
FIELD PLASOMERENIS MATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNHO/CM 25C) ON TOATION REDUCTION POTENTIAL (MV)	111	26. 467. 000-	28.0 6.68.0	8.4 0.84 0.01	111	84 84 0 0	M N-4-4 O GO
DISSOLVED GXYGEN, ELECTRODE (MG/L)	11	7.40	7.20	7,103	11	7.33	7,00

TABLE C-3e

PARAMETER NAME (UNITS)	STATICN 10 6/ 5/79	STATION 10 6/ 5/79	STATION 11 6/ 5/79	STATION 11 6/ \$/79	STATION 11 6/5/79	STATION 11 6/ 5/79	STATION 6/6/79
HYDKULOGICAL DATA							
TOTAL DEPTH (METERS) LINVE MEICHT (METERS) CURRENT SPLED (M/S) PHYSICAL DATA	0 11	°	000 000	ااه	ااه	الة الة	000 -000 -000
X-SECTION LD C (** SAMPLE UPST) ** SAMPLE DEPTH (METERS) ** CECCHI DISK TRANSPARENCY (METERS)	00 l	.0 	910	.0 0 0	.0	.o @in:	1.2 1.2
DEPTH OF 1% SURFACE LIGHT (METERS)	i	1	o ni	1		!	œ ~i
WATER TEMPERATURE (DEG C): SPEC CONDUCTANCE, FLD (UMMO/CM 25C): OXIDATION REDUCTION POTENTIAL (MV): UISSOLVED DXYGEN, ELECTRODE (MG/L):	25. 40. 000.	0.04 0.00 0.00 0.00	111 11	27. 0 77. 340. 8. 00	26. 0 78. 340. 7. 10	N	111 11

TABLE C-3f

HYDRULDGICAL DATA 107AL DEPTH (METERS) CURRENT SPLED (M/S)	000	0			0, 11,11	6/ 4/79
	000	6.				
, PHYSICAL DATA		1	011	% 	6 11	611
, MISCELLANEOUS DATA	•					
X SECTION LOC (XFROM R-BK LK UPST) 50. SAMPLE DEPTH (METERS) 1.0	\$ 	9 1	46. 0.	6.0.	7.0	4.0 .0.
	6 6	1	1	1	1	!
FIELD MEASUREMENTS						
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) 97. DXIDATION REDUCTION POTENTIAL (MV)		28. 0 136. 340.	27. 0 136. 340.	26. 0 145. 360	25. 0 148. 350.	25.0 149. 370
	11	10.3 8.50	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7.90	7,80	7,70

TABLE C-30

PARAMETER NAME (UNITS)	STATION 14.79	STATION 14 6/ 4/79	STATION 13 6/ 4/79	81AT10N 15 6/ 4/79	81A110N 101 6/ 4/74	STATION 15 6/4/79	STATION 6/ 4/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (M/S)	€°.0	• • • •	000 .s. 0	ķ!!	čII.	211	%11
MISCELLANE DUS DATA							
X-SECTION LOC (XFROM R-BM LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)		8-il	41 	6.: 0.:	6.0 0.0	4.0.1 0.1	64. 9:
DEPTH OF 1% SURFACE LIGHT (METERS)	1.3		r ci	}	1	1	!
FIELD MEASUREMENTS	•				•		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	Hi	226.	111	28.0 130.	20.00 20.00 20.00	28.0 23.0	1.0 1.0 1.0 0 .0
DISSOLVED DXYCEN, ELECTRODE (MG/L)	11	B. 40	11	8.40	8.8	9.8 2.90	7.90

TABLE C-3h

PARAMETER NAME (UNITS)	STATION 16 6/ 4/79	STATION 16 6/ 4/79	STATION 179 6/ 4/79	STATION 17 6/ 4/79	STATION 18 6/ 5/79	STATION 18 6/ 5/79	STATION 19 6/ 5/79
HYDROLOGICAL DATA	` ` ` ` 						
TOTAL DEPTH (METERS) UNVE HEIGHT (METERS) CURRENT SPIED (M/S)	8.0 0.0 0.0 0.0	o n:	0.10 u 100	911	e, 0.0 0.0.0 0.0.0	o vill	0 00 √ 00
PIYSICAL DATA MISCELLANEDUS DATA							
X - SECTION LDC (XFROM R-BM LM UPST) SANPLE DEPTH (METERS) GECCHI DISK TRANSPARENCY (METERS)	1.0	9 	81 <u>-</u> ;	9 	010	8-il	010
DEPTH OF 1% SURFACE LIGHT (METERS)	O Ni		O Ni	1	o ni	1	6
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) CXIDATION REDUCTION POTENTIAL (FU) DISSOLVED OXYGEN, ELECTRODE (FU/L) PH (STD UNITS)	1:1 11	0. 45. 7 0. 40. 7	111 11	105.0 77.1 7.40	111 11	26.0 93.	

PARAMETER NAME (UNITS)	STATICM 15 5/ 5/79
HYLROLDGICAL DATA	
10TAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (M/S)	e!;
PHYSICAL DATA	
MISCELLANEOUS DATA	
X-SECTION LOC (ZFROM R-BK LK UPST) SAMPLE DEPTH (NETERS) SFCCHI DISK TRANSPARENCY (METERS)	8; 8;
DEPTH OF 1% SURFACE LIGHT (METERS)	i
FIELD MEASUREMENTS	
WATER TEMPENATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) UXIDATION REDUCTION POTENTIAL (MV)	0.00 100 100 100 100 100 100 100 100 100
DISSOLVED DXYGEN, ELECTRODE (MG/L)	7.40

TABLE C-4a

CORPS OF ENGINEERS (CONTRACT DACMO1-78-C-0101) PHASE II. CYCLE 4 (7/16-19/1979)

WATER QUALITY SAMPLING RESULTS

PARAMETER NAME (LNITS)	STATION 01 7/19/79	STATION 01 7/19/79	STATION 01 7/19/79	STATION 01 7/19/79	STATION 01 7/19/79	STATION 01 7/19/79	STAT 10N 01 7/19/79
MYDROLOGICAL DATA							
TOTAL DEFTH (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	9 811	o n i i	o #11	0 0 0 0	o • I I	0 *!! #!!	0 *11 In 1
. X-SECTION LOC (XFROM R-BK LK UPST) . SAMPLE DEPTH (METERS) . SECCHI DISK TRANSPAPENCY (METERS) . DEPTH OF 1% SURFACE LIGHT (METERS) .	°° 1	.0	001	011 0	, m	°°°	0.4
FIELD MEASUPEMENTS MATER TEMPERATURE (DEG C) SPEC CCNDUCTANCE, FLD (UMHO/CM 25C) OXIDATION PEDUCTION FOTENTIAL (MV) CISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	29.0 60.0 7.22	27.5 62. 62. 7.3	27.0 62. 62. 7.3		29.0 60.0 7 - 7.2 7.30	27 - 56 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 -	27.0 60.0 7.30

TABLE C-4b

	STATION 01 7/19/79	STATION 01 7/19/79	STATION 01 7/19/79	STATION 02 7/19/79	STATION 02 7/19/70	STATION 02 7/19/79	STAT 10N 02 7/1 9/79
MVDROLDGICAL DATA							
TOTAL DEPTH (METERS) BAVE HEIGHT (METERS) CUMAENT STIED (FPS) PHYSICAL DATA	ři i	o eli nii	9 H		;	• •!!	000 10 0 10 0
MISCELLANEGUS DATA "X-SECTION LOC (XFROM R-RK LK UPST) SAMPLE DEFTH (METERS) SECCHI DISK TPANSPARENCY (METERS)	•m	.0	•0 •0 •0	•m	•0	•0 0•1	911
	1	!	1	1	ŀ	1	2.4
MATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMOZCH 29C) CXIDATICN REDUCTION POTENTIAL (MV) DISSOLVED DXYGEN, FLECTRODE (MG/L)	0 · m	0 m	62.0 62.0 1.0	0.0 0.0 0.0 0.0 0.0 0.0	001 6	O	;;;;
• PH (STD UNITS)	9	7.20	7.20	06.9	06.9	4.00	:

TABLE C-4c

PARAMETER NAME (UNITS)	STATION 02 7/19/79	STATION 02 7/19/79	STATES: 02 7/19/79	STATION 02 7/19/79	STATION 02 7/19/79	STATION 02 02 7/19/79	STATION 03 7/18/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) CURNENT SPEED (FPS) PHYSICAL DATA	o n	o n	o	0 m	o #11	o #11	•!!
MI SCELLANEOUS DATA					••		• •
X-SECTION LOC (XFROM R-OK LK UPST) : SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	•0	₩ 4	.00 i	•n	•0	•0 0 • 1 p n 1	•m
DEPTH OF 1% SURFACE LIGHT (METERS)	}	1		1	!	;	¦
BATER TEMPERATURE (DEG C) SPEC CONDUCT MICE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	8.0 i	891	29.0	29.0	28.0 65.0	2.0 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	27.5 67.
DISSOLVED DXVGFN. ELECTRODE (MG/L) PH (STD UNITS)	7.00	40.	7.00	999	7.00	7.00	6.80

TABLE C-4d

PARAMETER NAME (UNITS)	STATION 03 03 7/16/79	STATION 03 7/18/79	STATION 03 7/18/79	STATION 03 7/18/79	STATION 03 7/18/79	STATION 03 7/18/79	STATION 03 7/1 8/79
HYDROLDGICAL DATA					• • • •		
TOTAL DEPTH (MFTERS) WAVE MEIGHT (METERS) CURRENT SPEED (FPS)	0	;!!	000 •00 •00	: 11		• ! !	; !!
PHYSICAL DATA MISCELLANEOUS DATA			•••		•••		
X-SECTION LOC (XFDOM R-BK LK UPST) SAWPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	.0	••• •••	011	80 I	0 - 1 0 - 1	.c on !	• F
DEPTH OF 1% SURFACE LIGHT (METERS)	; · · · ·	!	0 N	1	ļ	!	
LATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) CXIDATICN REDUCTION POTENTIAL (MV)	27.8	27.0	111	27.5	27.5	8.4	27.0
DISSOLVED DXYGEN, FLECTRODE (MG/L)		7.00	11	9	7.30	7.20	6.90

TABLE C-4e

PARAMETER MAME (UNITS)	STATION 03 7/18/79	STATION 03 7/18/79	STATION 04 1718/79	STATION 04 7/18/79	STATION : 04 : 7/18/79 :	STATION 04	STAT ION 04 7718/79
MYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURHENT SPEED (FPS)	3 11	• • •	0 0 1	\$	0 10 1	0 0 0 0 0 0 0 0 0 0	0 11 10 1 1
PHYSICAL DATA MISCELLANEOUS DATA	•••		• • • •				• • • •
X-SFCTION LOC (YFPON R-BK LK UPST) : SAMPLE DEPTH (METERS) SFCCHI DISK TRAKSPARENCY (METERS) :	001	•0 • 1 • n	•m	•0	.0		90 I
£H	1	1	;	1	1	:	1
FIELD MFASUREMENTS	••						
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION PEDUCTION POTENTIAL (MV)	27.0	27.0	122.	120.	28.0	111	28.0
DISSOLVED CXYGEN. ELECTRODE (MG/L)	6.90	7.8	6.9	7.1	7.2	11	7.2

TABLE C-4f

PARAMETER NAME (UNITS)	STATION 7/18/79	STATION 04 7/18/79	STATION 04 7/18/79	STATION 04 7/18/79	STATION 04 7/18/79	STATION 05 7/18/79	STATION 05 7/18/79
HYDROL GGICAL DATA							••••
TOTAL DEPTH (NETERS) LAVE HEIGHT (METERS) CURRENT 5-ECD (FPS) PHYSICAL DATA	wii	9 1	0 	0	o #11	*	•
MISCELLANEOUS DATA	• •	• •					••
** SECTION LOC (KFROM R-BK LK UPST) SAMPLE DEPTH (MFTERS) SECCHI DISK TRANSPARENCY (MFTERS)	00-1	.0	.E.	001	901	•m	•••
DEPTH OF 1% SURFACE LIGHT (MFTERS)	1	:	1	1	;	;	1
FIFLD MEASUREMENTS		•					••
SPEC CONDUCTANCE, FLD (UMHO/CM 25C)	29.0	28.0	28.0	0.00	23.0	28.0	0001
* DISSOLVED DXYGEN. ELECTRODE (MG/L)		7.7	7.2	7.5	4.50	¥00	7.8

TABLE C-49

PARAMETER NAME (UNITS)	STATION 05 7/18/79	STATION 05 7/18/79	STATEON 05 7/18/79	STATION 05 7/18/79	STATION 05 7/18/79	STATION 05 7/18/79	STATION 05 7/18/79
MYDROLOGICAL DATA							
TOTAL DEPTH (METERS) NAVT NEIGHT (METERS) COMMENT SPLES ("D")	0	N N	%	w	0 1 1	*!!	•!!
PHYSICAL DATA	•••	• • •					•
X-SECTION LOC (XFRCM R-BK LK UPST) SAMPLE DEPTH (4ETERS)	•0 •0 •0	• • • •	.w.	.0°.	W4	• m	001
DEPTH OF 1% SURFACE LIGHT (METERS)	;	1.1	;	!	:	:	;
FIELD MEASUREMENTS	••	••					,
BATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 29C) OXIDATION REDUCTION POTENTIAL (MV)	200 100 100 100	111	28.0 75.	0.1	000	0 • 0 I	001
DISSOLVED GXYGEN, CLECTRODE (MG/L)	7.20		00	7.20	7.5	7.20	7.7

TABLE C-4h

PARAMETER NAME (UNITS)	STATION 05 05 7/18/79	STATION 06 7/18/79	STATION 06 7/18/79	STATION 06 7/18/79	STATION 06 7/18/79	STATION 06 7/18/79	STATION 06 7/18/79
HYDROLDGICAL DATA					•••		•••
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT STEED (FPS)	o dii	• 1 1	;;;;	311	000	911	011
PHYSICAL DATA	_				• • •		• • •
MISCELLANEOUS DATA				. •			
X-SECTION LOC (YFROM R-DK LK UPST) : SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS) :	•0 •0 •m	• n · i	0	- 60 - 60 - 60 - 60	011	•M • • • • • • • •	•0 0 • 1 0 ~ 1
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	!	:	1.2	¦ 	¦
FIELD WEASUREMENTS			. •		• • •		
WATER TEMPERATURE (DEG C) SPEC CLMNKTANCE, FLD (UMHD/CM 25C)* OXIDATION FFOUCTION POTENTIAL (MV)	23.0 0.1.0 1.1.0	27.0	27.0 77.0	62.0 0.0	!!!	7.4	
DISSALVED DXYGEN. ELECTRODE (MG/L)	7.7		0.6.9	7.10	!!	 6.9 	7.10

TARIF C-41

PARAMETER NAME (UNITS)	STATION C.C. 7/18/79	STATION 06 7/18/79	STATIUN 06 7/18/79	STATION 06 7/18/79	STATION 01 1/18/79	STATION 07 7/18/79	STATION 07 7/10/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WANY MEIGHT (MITERS) CURRENT SPEED (FP.)	0 61 1	0 11	911	0 1 1	0	:::1	°11
MISCELLANEOUS DATA	••	••		••			
X-SECTION LOC (XFRON R-BK LK UPST) * AMPLE DEPTH (MFTERS) SECCHI DISK TRANSPARENCY (MFTERS)	0 1 0 1	•m	•••	001	•M 0 • 1 N 0 1	0 1 0 0 1	0 • I N • I
DEPTH OF 1% SURFACE LIGHT (METERS)	;		1	1	1	1	!
FIELD FASURENTS	•	• •					
* WATER TEMPERATURE (DEG C) * SPEC CONDUCTANCE, FLD (UMHO/CH 25C)* * OXIDATION PEDUCTION POTENTIAL (MV) **	27.0	27.0	27.0	27.0	24.0 340.0 340.0	0 °0 90 80 80 80 80 80 80 80 80 80 80 80 80 80	C .00 EED N
DISSILVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7.9	7.9	7.8	7.9	7.2	7.00	7 . 00. 0

TABLE C-43

PARAMETER NAME (UNITS)	STATION 07 7/18/79	STATION 7718/79	ST AT 10N 07 7/18/79	STATION 07 7/18/79	STATION 07 7/18/79	STATION 07 7/18/79	STATION 7/18/79
MINDOLOGICAL DATA					•••		
	000 100 100 0	<u> </u>	:	\$11 	0	0	©
MISCELLANEOUS DATA			• • •	• • •	• • •		
X-SECTION IDC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	0.0	.m	441	401	•M 1	000	1400
SEPTH OF 1% SURFACE LIGHT (METERS)	N. II		!	:	!	;	'
FIFLO MEASUREMENTS		- •	••	••			
WATER TEMPERATURE (DEG C) SPEC CONTUCTANCE, FLD (UMHO/CM 25C)* CATOATON SETUCTION POTENTIAL (MV) *	111	2000	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	0 .00 0 .00 0 .00 0 .00		0 • 0 • 0 • 0 • 0 • 4 N	
DISSOLVED DAYGEN. ELECTRODE (MG/L)	::	7.6	7.30	7.20	7.10	7.30	7.20

TABLE C-4k

PARAMETER NAME (UNITS)	STATION 07 7/18/79	STATION 07 7/18/79	STATION 07 7/18/79	STATION 08 7/17/79	STATION 08 7/11/79	STATION 08 7/17/7	STAT ION 09 7/17/79
MYDROLDGICAL DATA							
TOTAL DEPTH (METERS) BAVE HEIGHT (METERS) CUMBERT SPEED (FPS) PHYSICAL DATA	0	o #11	o	000 M • 0	O	° 11	000
SCELLANEOUS DATA	••	••			• •	• •	
X-SECTION LOC (MFROM R-BK LK UPST) (SAMPLF DEPTH (MFTERS) SECCHI DISK TRANSPARFNCY (METERS)	•M 0 • 1 € 0 1	8-1 •••	.0	9.0	 	,00 1 00	010
DEPTH OF 1. SURFACE LICHT (METERS)	1	1	1	1:3	;	1	*
FIELD MEASUREMENTS	•	• •			•••		
NATER TEMPERATURE (DEG C) SPEC CONDUCT ANCE, FLD (UMHD/CM 25C): GXIDATION REDUCTION POTENTIAL (MV)	28.0 75.	28.0 75.	28 80.0 60.0	111	28.0 88.	788 996 000 000	111
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	7.10	7.20	7.3	11	7.40	7.20	11

TARIF C-41

PARAMETER NAME (UNITS)	STATION 09 7/17/79	STATTON 09 7/11/7	STATION 05 7/1777	STATION 10 7/17/79	STATION 10 17/1779	STATION 10 7/17/7	STATION 10 7/17/7
MOROLOGICAL DATA					• • • •		••••
TOTAL DEPTH (METERS) LAVE HFIGHT (METERS) CURPENT SPEED (FPS) PHYSICAL DATA	0	0 ! !	6	000	011	: ::1	• 11
MISCELLANEGUS DATA X-SFCTICN LOC (MFRDM R-8W LK UPST) * SAMPLE DESTH (WFTERS) * SECCHI DISK TRANSPARENCY (MFTERS) *	1.0	90 1 90 1	9001	* L * C	001	**************************************	401
CEPTH OF 1% SURFACE LIGHT (METERS)	;	1	!	1.6	1	;	
WATER TEMPERATURE (DEG C) SPEC CRIDGEANDE, FLD (UNHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV) DISSOLO DXYGEN, FLECTRODE (MC/L)	288 7 7 980 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 • 0 • m 0 • N	27.8 380 7.2.2 7.2.2	::: !:	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	28. 380. 380. 7.50.	28.0 .00. .00. .00.

TABLE C-4m

	•	61/11/1	7/17/79	7/17/79	11177	1,1779
HYDR OL DG FCAL DATA						
TOTAL DEPTH (METERS) MAVE HEIGHT (MFTERS) CURRENT SPEED (FPS)	811	0 0 11	0 1 1	011	0 11	0 1 1
PHYSICAL DATA	•••	•••		• • •	•••	
X-SECTION LOC (XFROM R-DK LK UPST) 20.	0000	*0 0*1	****	•0 •m	4 N 1	146
(METEPS)	•••	!	¦	;	;	!
FIELD MEASUREMENTS	•••	••		••	•. •	,
• WATER TEMPEPATURE (DEG C) • SPEC CONDUCTANCE, FLD (UNHO/CM 25C) • DXIDATION REDUCTION POTENTIAL (MV) • 370	101.	28.5 140.	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	104.5	126.5 170	28+0 122+ 370
DE (MG/L)	· • • • •	7.0	7.6	7.80	7.90	7.80

TABLE C-4n

PARAMETER NAME (UNITS)	STATION 1117777777777777777777777777777777777	STATION 11 7/17/79	STATION 11 7/17/7	STATION 11 7/17/79	STATION 11 7/1779	STATION 11 7/17/79	STATION 11 7/17/79
HYDROLOGICAL DATA	• • • •						
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	0	000	°::	•	0 1 1	° 11	011
MISCELLANEOUS CATA	••	••			••		••
* X-SECTION LOC (XFRCM R-BK LK UPST) * SAMPLE DEPTH (METERS) * SECCHI DISK TRANSPARENCY (METERS) **	•0		-00-1	•0 9m	•0	*0	(C) (C)
DEPTH OF 1% SURFACE LIGHT (METERS)	1	o n	1	1	1	:	!
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) Oxidation Peduction Potential (MV)	28.0 127.0	Ĥ	29.0 83.	28.0 390	28 99 380	108 108 108 100 100	28.0 108.
* DISSOLVED DXYGFN, FLECTRODE (MG/L) * PH (STD LNITS)	7.90	11	7.1	8.00	7.00	M 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.80

PARAMETLR NAME (UNITS)	STATION 11 7/17/7	STATION 12 7/18/79	STATION 12 7/18/79	STATION 12 7.18/79	STATION 12 12 179	STATION 12 7/18/79	STATION 12 7/18/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURPENT SPEED (FP.) PHYSICAL DATA	0	0	0 N	₩00 •0•	in	m ≈!	011
X -SECTION LOC XFROM R-BK LK UPST) SAMPLE DEPTH (4ETERS) SECCH O 15K TRANSPARENCY (METERS)	*O	•m o• i no i	*0 0 1		.m	.00 .00	.n.
OEPTH OF 1% SURFACE LIGHT (METERS)	;	1	;	W	<u> </u>	1	1
WATER TEMPERATURE (DEC C) SPEC CONDUCTANCE, FLD (UMMD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV) DISSOLVED OXYGEN, ELECTRODE (MG/L) FH (STD UNITS)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0. 0 0. 0	0 0 0 1 0 1	111 11	Mai 7	0 • no	0 0 0 1

TABLE C-4p

V V V	000 000 000	°	0		6//91//	1/16/79
DATA	000	811	0			
PHYSICAL DATA	• •	•		0	0	0 1 1
MISCELLANEOUS DAIN	• • •				•••	
SAMPLE DEPTH (METERS) 100 100 100 100 100 100 100 100 100 10	8:- -:	*0 0 - 1	en!	•0 0 • 1 min 1	.0	.0 0 0 1
GHT (METERS)	2.5				!	!
	•••					
	!!!	0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 •	0 0 0 0 0 0 0 0 0	040 040 040	360	360
•••	11	% 60 60 60 60 60 60 60 60 60 60 60 60 60 6	00	7.90	7.40	5.2 7.50

PARAMETER NAME (UNITS)	STATION 14 7/16/79	STATION 14 7/16/79	STATION 14 7/16/79	STATION 14 7/16/79	STATION 14 7/16/79	STATION 14 7/16/79	STAT ION 1 1 6/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) LAVE HEIGHT (METERS) CURRENI SPEED (FPS) PHYSICAL DATA	87 • 1 1 • 1 1	₩	N00	<u>.</u>	vo 	o # []	0 •!! #!!
MISCELLANEOUS CATA X-SECTION LOC (VERON R-8K LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	•m 0 • 1 0 0 1	2 - 1 0 • 1 50	50.	•m 000	N-1	•m Ø • 1 Ø • 1	**************************************
DEPTH OF 1% SUPFACE LIGHT (METERS)	i	;	1.5	!	1	1	1
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) CXIDATION REDUCTION POTENTIAL (MV) DISSOLVED OXYGEN, FLECTRODE (MG/L) PH (STD UNITS)	0.00	0.000	111 11	176.0	0. 100	00 01 01 00 01 01	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE C-4r

PARAMETER NAME (UNITS)	STATION 14 7/16/79	STATION 15 7/16/79	STATION 15 1/16/79	STATION 15 7/16/79	STATION 15 7/16/79	STATION 15 7/16/79	STATION 15 7/16/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CUMPENT SACED (FFN) PHYSICAL DATA	o e i i	0 •!! ©!!	• • • • • • • • • • • • • • • • • • •	o #11	0 1 1	0 11	0 11
MISCELLANEOUS DATA X-SECTION LOC (XFROM R-DK LK UPST) SAMPLE DEPTH (MFTERS) SFCCHI DISK TRANSPAPENCY (METERS)	00.1	20-1 0-1	00 0 1 NM 1	MW 0 0 0 1	1.40	•0 0 • 1 • • 1	****
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	•	;	1	1	}
SPEC CONDUCTANCE, FLD (UMHO/CM 25C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) GXIDATION FEDUCTION POTENTIAL (MV)	28 283.0	30.0 350.1 3.0	0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 •	20 80 80 80 80 80 80 80 80 80 80 80 80 80	22 24 26 26 26	180 181 181 180 180 180	0.00 0.00 0.00 0.00
PH (STØ UNITS)	:	000	. 70	06.7	0	0	0

TABLE C-4s

PARAMETER NAME (UNITS)	STATION 15 7/16/79	STATION 15 7/16/79	STATION 15 7/16/79	STATION 15 17/16/79	STATION 15 17/16/79	STATION 15 1716/79	STATION 15 17/16/79
HYDROLOGICAL DATA							
TOTAL DEPTH (MFTERS) WAVE HEIGHT (METERS) CURMENT SPECO (FPS) PHYSICAL DATA	0	6 11	000	; 11	\$11	4 11	0 1 1
MISCELLANEOUS DATA							
* X-SECTION LOC (XFROM R-BK LK UPST) * SAMPLE DEPTH (METERS) * SECCHI DISK TRANSPARENCY (METERS)	4n 0	140	9 7	•0 ••1	0001	9m 1	100
DEPTH OF 1% SURFACE LIGHT (METERS)	1	'	3.0	1.	1	;	;
FIELD MEASUREMENTS	•						
SPEC CONDUCTANCE, FLD (UMMO/CM 25C). CXIDATION REDUCTION POTENTIAL (MV)	200 132 330	100 100 100 100 100	111	30.0 126.	128 130 130	128 126 136 130	29.0 124.
DISSOLVED DXYGFN. ELECTRODE (MG/L)	7.80	7 . 50	11	8.70	90	80 •M •D	10.9

TABLE C-4t

PARAMETER NAME (UNITS)	STATION 15 7/16/79	STATTON 15 1716/79	STATION 15 7/16/79	STATION 16 7/16/79	STATION 16 7/16/79	STATION 16 7/16/79	STATION 16 7/16/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) CONNEUT S'EFD (FPS)	• ! !	0 0 0 1	0 0 0	;	; ;;	; ;;	000 000
PHYSICAL DATA	• • •						
HISCELLANEOUS CATA	•						
X-SFCTION LCC (XFROM R-8K LK UPST) SAMPLF DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	00n	0001 001	140		.0 .0	0 . 1	200
DEPTH OF 1% SURFACE LIGHT (METERS)	1	1	;	1	†	1	5.
FIELD MEASUREMENTS	•						
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 29C) OXIDATION REDUCTION POTENTIAL (MV)	29.0 124.	28.0 127. 340.	0.00 0.00 0.00 0.00	114.	114.5	117.	111
DISSOLVED OXYGEN, ELECTRODE (MG/L) : PM (STD LNITS)	10.8 0.10	7.2	7.50	7.7.0 0.7.0	7.60	4.0	11

PARAWETER NAME (UNITS)	STATION 16 179 179 179 179 179 179 179 179 179 179	STATION 16 7/16/79	STATION 16 7/16/79	STATION 16 179	STATION 16 7/16/79	STATION 16 7/16/79	STATION 17 1716/79
HYDROLOGICAL DATA							•••
TOTAL DEPTH (METERS) NAVE HFIGHT (METERS) CURNENT SPEED (FP3)	0	311	;;;	;;;	411	•	· · · · · ·
PHYSICAL DATA	•••		•••	•••	•••	•••	•••
MISCELLANFOUS DATA	•		• •	• •		•	•
X-SFCTION LOC (WFRCM R-BK LK UPST) SAMPLE DEPTH (METERS) SFCCHI DISK TRANSPARENCY (METERS)	.m	.0	•0 •0 •0	•M	 	•0 0 • 80 1	.m
DEPTH OF 1% SUPFACE LIGHT (METFRS)	1	}	;	;	:	:	:
FIFED MEASUREMENTS			••		••	••	
WATER TEMPERATURE (DÉG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	115.	113.	115.	116.	115.	27- 216- 116-	105.
DISSOLVED DXYGEN. ELECTRODE (MG/L)	7.70	7.60	7.50	7.9	7.2	6.8	7.30

TARIF C-4v

PAHAMETER NAME (UNITS)	STATION 17 7/16/79	STATION 17 1/16/79	STATION 17 7/16/79	STATION 17 1/16/79	STATION 17 7/16/79	STATION 17 7/16/79	STATION 17 1/16/79
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURKENT SICED (FPS)	0 11 11	0 #11 #11	0000	; !!	0 11	0	-:!!
PHYSICAL DATA MISCELLANFOUS DATA							
X—SECTION LOC (XFROM R-DK LK UPST) SAMPLE DEPTH (METENS) SECCHI DISK TRANSPARENCY (MFTERS)	 	0 1	% I =	00 00	30 - 1 0 - 1	.0 0 • 1 10 • 1	*F + 1
DEPTH OF 1% SURFACE LIGHT (METERS)	_	1	80	;	;	-	!
WATER TEMPERATURE (DEG C) WATER TEMPERATURE (DEG C) OXIDATION PEDUCTION POTENTIAL (MV)	106.	110.	111	101.	27 - 0 101 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	103.	105.
DISSOLVED DXYGEN. ELECTRODE (MG/L)		7.20	1;	7.20	90	8.6 8.0	7.20

TABLE C-4W

PARAMETEP NAME (UNITS)	STATION 17 7/10/79	STATION 18 7/17/79	STATION 18 7/17/79	STATION 18 7/17/79	STATION 18 7/17/79	STATION 18 7/17/7	STATION 18 171777
HYDROLOGICAL DATA							
TOTAL DEPTH (METERS) MAVE HEIGHT (METERS) CURPENT 3'EED (FPS)	so	0 •!!	0	0016 •0• ••N	?	? !!	0 1 1
PHYSICAL DATA MISCELLANEOUS DATA	• • •					• • •	
. X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	0 = 1 0 = 1	•m •• 1	.0.1	80 0 0 0	.m	1.00	*0 0*1 nn i
DEPTH OF 1% SURFACE LIGHT (METERS)	!	1		8	;	;	;
FIFLD MEASUREMENTS	•••			_		•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) GXIOATION REDUCTION POTENTIAL (MV)	106.	113.	116.5	;;;	23. 113.	28.5	00 m l
DISSOLVED OXYGEN, ELECTRODE (MG/L)	7.10	7.97	7.50	11	7.40	7 50	7.50

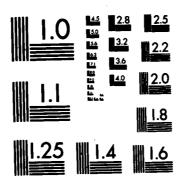
TABLE C-4x

PARAMETER NAME (UNITS)	STATION 18 17/179	STATION 18 7/17/79	STATION 18 17/1/7	STATION 19 1/171/7	STATION 19 1/17/79	STATION 19 7/17/79	STATION 19 7/171/7
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CUNKENT SJEED (FPS) PHYSICAL DATA	in -!!	4 6	°	::	::11 ::11	00°	mi i
MISCELLANEOUS DATA	•		•				
* X-SECTION LCC (XFROM R-BK LK UPST) * SAMPLE DEPTH (METERS) * SECCHI DISK TRANSPARENCY (METERS)	•m	100	0m 1	•M 0•1	001		.m
DEPTH OF 1% SURFACE LIGHT (METERS)	· · ·	1		1	1	2.5	;
FIELD MEASUPEMENTS	. • •						
SOFC CONDUCTANCE, FLD (UMHD/CM 25C) CAIDATION REDUCTION POTENTIAL (MV)	28.5	119.5	20.5	113.	115.	111	28.5
DISSOLVED DXYGEN. ELECTRODE (MG/L)	7.70	7.60	6.6	5.5	7.40	11	7.30

TABLE C-4y

3.0 3.0 50. 50. 50. 50. 50. 50. 50. 50. 50. 50.	PARAMETER NAME (UNITS)	STATION 19 10 7/17/79	STATION 19 171777	STATION 19 7/17/79	STATION 19 7/17/7
3.0 11.0 11.12.5 11.12.5 11.12.5 11.12.5 11.12.5 11.12.5 11.12.5	HYDROL DGICAL DATA				
50. 1.0 28.5 1112.	TOTAL NEPTH (METERS) NAVE HEIGHT (METERS) CUMRENT SOEEN (FPS.)	o m!!	o : : : :	0	0 : : :
28.5 1112.	PHYSICAL DATA				
28.5 28.5 1112. 116.	X-SECTION TOC (MERCH R-BK LK UPST) . SAMPLE DEPTH (METERS) . SECCHI DISK TRANSPARENCY (METERS) .	100	800	• 60 • 60 • 60	00-1
28.5 1 28.5 112.	DEPTH OF 1% SUPFACE LIGHT (METERS)	1	1	1	۱
	FIELD MFASUREMENTS WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE, FLD (UMHOZCM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.5	28.5	29.0	112.
7.30 7.50	OISSOLVED DXYGFN. ELECTRODE (MG/L)	7.30	7.50	7.40	7.40

AD-A1	23 446	NAT FEB	ER QUI	ALIŤY -DECEM	MANAGE BER 19	MENT 9	TUDIE:	5 LAKE	SEMIN TER AN CF-80-	OLE ID AIR	•	3/	8.
UNCLAS	SIFIE	D DAC	EARCH 101-78	INC G B-C-01	RINESV 01	ILLE F	L DE	C 82 A	CF-80-	·11 F/G 8	3/8	NL	



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

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CORPS OF ENGINEERS (CONTRACT DACVOL-78-C-0101) PHASE 11: CYCLE S (8/13-16/1979) MATER QUALITY SAMPLING RESULTS

115)	STATION 01 8/15/79	STATION 01 0/15/79	STATION 02 8/15/79	STATION 02 8/15/79	STATION 03 8/15/79	STATION 03 6/15/79	51 AT 10N 04 8/15/79
PYDRGLOGICAL DATA							
TOTAL DEPTH (METCRS) NAVE HEIGHT (METERS) COMPENT SPECN (FPS)	000 m.0	el!	008	0	0 0 0 0 0	o i i	00 m
PHYSICAL CATA	•••			•••			
MISCELLANEOUS DATA				••			-
* X-SECTION LOC (XFROM R-BK LK UPST) * SAMPLE DEPTH (NETERS) * SECCHI DISK TRANSPAPENCY (METERS) **	1.150	.00	-130	Ω~ i	1 1 50	.0 0 • 1	11.2
DEPTH OF 1% SUPFACE LIGHT (METERS)	3.0	-	0.6	1	0.0	;	0.0
FIELD HEASURENTS			,				
* SPEC CENDUTANCE, FLE (UMHOZEM 25C)* CXICATION PEDENTION FETENTIAL (MV)	111	90.0	;;; ;.	28.0	111	28.7	111
CISSOLVED DXYGEN. FLECTRODE (MG/L)	11	7.00	! !	804 P.	11	7.30	11

PARAHETER NAME (UNITS)	STATION 04 8/15/79	STATION 35 8/15/79	STATION 05 8/15/79	STATION 06 8/15/79	STATION 06 8/15/79	STATION 07 8/14/79	STAT ION 07 8/14/79
HVPROLOGICAL DATA							
TOTAL DEPTH (WETERS) NAVE HEIGHT (MFTERS) GUNRENT SPEED (FPS) PHYSICAL DATA	e	000 •0• •0•		000 *00	0 1 1	000 •0.• 0 •0	311
MESCELLANFOLS DATA	•			• • •	•••		
*-SECTIEN LDC (#TRGM R-DK LK UPST) **AMPLE DEDTH (METERS) **SECCHI DISK TRANSPARENCY (METERS)	00.1	100	00.1	50.	.00.	91 -	0-1
CEPTH OF 12 SUPFACE LIGHT (NETERS)	1	7 0		2.0	1	2.1	!
FIFLE HEASUPEMENTS					•		•
NATER TEMPERATURE (PEG C) SPEC CCRUCTANCE, FLE (UNHO/CM 25C)* CXIDATICN REDUCTION FOTENTIAL (MV)	29.0	111	8.00 	11;	28.0		200 200 200 200 200
DISSOLVED CXYGEN, FLECTHODE (MG/L)		::	400.8	11	7.00		7.40

TABLE C-5c

PARAMETER NAME (LNITS)	STATION 07 8/14/79	STATION 07 8/14/79	STATION 06 8/14/79	STATION 08 08 08 14/79	STATION 08 08 08 14/79	STATION 09 8/14/79	STATION 09 8/14/79
MDRG_DGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) GURDENT SPEED (FPS)	•	:11	00h 100	ni i	e	#00 •# • • • • •	? !!
PHYSICAL DATA			• • •	• • •			
4-SECTION LDC (MFROM R-BK LK UPST) SAMPLE DEFNH (MFTERS) FECCHI DISK TPANSFARENCY (MFTERS)	8n1	90	9 0	80.1	0001	010	
SEPTH OF IN SURFACE LIGHT (METERS)		;	:	1		•	¦
FIELD MEASUREMENTS LATER TEMPERATURE (DEG C.) SPEC CENEUCTANCE, FLD (UNHO/CM 25C.)		27.5	11	0 · 6	0 .0	;;;	20°0
CATCATION FEDCTION POTENTIAL (MV)	18. 80 18. 80 18	000 m		7. 30 8. 8. 9.	20 00 00 00 00 00 00 00 00 00 00 00 00 0	!!	7.50

£	STATION 00 6/14/70	STATION 00 8/14/79	STATION 10 8/14/79	STATION 16 8/14/79	STATION 10 8/14/79	STATION 10 10 10 10 10 10	STAT 1014 10 8/14/79
HYDROLGGICAL DATA							
TOTAL OEPTH (WFTERS) NAVY HEIGHT (WFTERS) CURRENT JOECO (FPS)	\$!!	% 11	P.00 0.00 0.00	:11	211	, , ,	211
PHYSICAL DATA		• • • •		• • • •			
X-SECTION LOC (XFROM R-NK LK UPST) : SAFPLE DEPTH (MCTERS) : SECCHI DISK TRANSFARFUCY (MCTERS) :	881	•m •m •m •n		8-1 0-1	oo i	0.01 0.01	361
DEPTH OF 1% SURFACE LIGHT (METERS) . FIELD MEASUREMENTS	ļ		:3 •	1	1	1	
SPEC CONDUCTANCE (CEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C): CXICATICA HECUCTION PUTENTIAL (MY):	88 80 90 90 90	0 •00 90 •00 000 •00	111	2000 8000 9000	804 0 404 0 000	28.3 84.0 470	27.5
DISSALVED CXYGEN, FLECTRUDE (MGZL) ; PH (STD LHITS)	7.10	304	11	7.70	7.20	7.20	7.20

ABLE C-5e

PARAMETER NAME (LNITS)	STATION 11 8/14/79	STATION 11 8/14/79	STATION 11 8/14/79	STATEON 11 8/14/79	STATION 11 8/14/79	STATION 12 8/16/79	STATION 12 8/16/79
HYDROLOGICAL DATA							
TCTAL DEFIN (METERS) NAVE MEIGHT (METERS) CURRENT SIVEED (FPS)	8 0 0 0 0 0 0 0	0	o n	•	ំ!! ស!!	000	211
MISCELLANGUS CATA	• • • •	•••					
SAPLE DEPTH (MFTERS) SECCHI DISK TRANSPARENCY (METERS)	6.0	•0	90.1	*0 9m	94 i		0-1
CEPTH OF 1% SURFACE LIGHT (METERS)	2.0	•	1	1	1	0	•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 29C) CXICATION REDUCTION POTENTIAL (MV)	111	20.4 20.4 20.0	29.0 42.0	0.04 0.04	80.4 80.4 80.0	111	5.66 6.78
DISSOLVED OXYGEN. ELECTRADE (MG/L) . PM (STD LNITS)	11	P:0	8.10	7.50	0 · 0	11	7.90

PARAMETER	STATION 13 8/15/79	STATION 13 8/13/79	STATION 13 8/13/79	STATION 13 8/13/79	STATION 13 8/13/79	STATION 14 8/16/79	STATION 14 6/16/79
HYDRCLDGICAL DATA							
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CUMRENT SPEED (FPS)	000	, i			0	000 N •0	811
PHYSICAL DATA MISCELLANEOUS DATA	·						
X-SECTION LOG (MPRCP R-DK LK UPST) SAMPLE DENTH ("FITES) SFCCHI DISK TGANSPANENCY (METERS)	• 10 01•	%-1	001 001	.0 .0 .0	991		8-1
CEPTH OF IX SUPFACE LICHT (METERS)		1	1	1	!	0	- }
BATER TEWFERATURE (BEG C) SPFC CONGUSTANCE, FLD (UMHD/CM 25G) GXIEATICN PEEUCTION POTENTIAL (MV)	111	29.5 117.	200 100 100 100	844 805 005	140.5 390.5	111	204 204 1060
DISSILVED DXYGEN, FLECTRODE (MG/L)	;;	8.00 8.00 8.00	60,40	00	8. 50 8. 50 8. 50	11	8 8 10

TABLE C-5g

PAKAMETER NAVE (UNITS)	STATION 15 17/13/79	STATION 15 8/13/79	STATION 15 8/13/79	STATION 15 8/13/79	STATION 15 8/13/79	STAT 10N 16 15 8/13/79	STATTON 16 8/13/79
MYDROLDGICAL DATA							
TCTAL DEPTH (METERS) BAVE MEIGHT (METERS) CURPENT STEFN (FPS.) PHYSICAL DATA	000		o #	, i		0.00 0.00 0.00	, i
MISCELLANFOLS DATA N-SECTICA LOC (MFRCM R-DK LK UPST) SAMPLE DEPTH (MFTERS) SECCHI DISK TRANSPARENCY (METERS)	910	*** ***i	4N	• 0 • m	441 0 • 1	• m • n i =	00 - 1 00 - 1
DEPTH OF 1% SURFACE LIGHT (METERS)		!	1,		1	0	1
BATER TEMPERATURE (DEG C) SMC CCNOUCTANCE, FLD (UMHOZCM 25C) GXIDATICN REDUCTION FCTFHITAL (MV)	111	0.00 0.00 0.00 0.00	2000 3000 3000	29.0 140.	28.0 147.	111	28.5
DISSCLVED DXYGEN. FLECTRODE (MG/L)		•00	9.00	7.7	8.10	11	7.2 8.15

PARAHETER NAME (LNITS)	STATION 17 8/13/79	STATION 17 8/13/79	STATION 18	STATION 18 18/14/79	STATION 19 8/14/79	STATION 19 19 8/14/79
WDRCLUGICAL CATA						
TOTAL DEPTH (NETERS) MAYF HEIGHT (MFTERS) CUMBENT SHEED (FPS)	00G •0•0 ••0	211	00s	: :11	n on	n ! !
PHYSICAL BATA		•••	•			,
X-SECTION LOC (MFFGM R-DK LK UPST) . SAMPLE DEPTH (METERS) . SECCET PISK TRANSPAKENCY (METERS) .		100	0 0 0	100	& 1 O	K1
DEPTH OF 1% SUFFACE LIGHT (METERS)	7.0	· · ·	7.	1	2.3	!
FICLD MEASUREMENTS ***********************************	111	27.0		28.5 102.	111	101.0
CISSOLVED OXYGEN, PLECTRODE (MGZL)	11	7. M. W.	;;	07.2	!!	7.30

CORPS OF ENGINEERS (CONTRACT DACNOL-78-C-0101) PHASE II. CYCLE 6 (9/24-26/1979)
WATER QUALITY SAMPLING RESULTS

	STATION 01 9/26/79	STATION 01 9/26/79	STATION 02 9/26/79	STATION 02 9/26/79	STATION 03 9/26/79	STATION 03 9/26/79	STATION 04 9/26/79
HYPROLEGICAL DATA							
TCTAL DEPTH (METERS) NAVE PEIGHT (METERS) CUARENT SPEED (FPS) PHYSICAL DATA	000 *0 * n • =	o #11	000	; ;;	000 •0• ••	• •	000
MISCELLANEDUS CATA							
X-SECTION LOC (XFRCW R-BK LK UPST) . SAMPLE DEPTH (4ETEKS) . SECCHI DISK THANSPARENCY (METERS) .		0-1		*O	01	 	\$1-
DEPTH OF 1% SUMPACE LIGHT (METERS)	3.2	1	8•8	;	8.5	!	K.
FICLD MEASUREMENTS							
BATER TEMPERATURE (DEG C) SPEC CONTUCT ANCE, FLD (UNHO/CM 25C) CARDATION FEDUCTION FOTENTIAL (NV)	111	80 i	:::	8 • 1 8 • 1 8 • 1	111	n •	!!!
DISSULVED CXYGEN. ELECTRODE (MG/L)	11	7.10	11	001.	11	2.00	11

PARAMETER NAME (UNITS)	STATION 04 9/26/79	STATION 05 9/26/79	STATION 05 9/26/79	STATION 06 9/26/79	STATION 06 9/28/79	STATION 07 9/25/79	STATION 97 9/25/79
HVDRGL 3GICAL DATA							•
TOTAL DEPTH (METERS) LAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	mi i	200	o	000 000	o # ! !	000	• 1 1
MISCELLANEOUS BATA		•					
SAMPLE DEPTH (METERS) SECCNI DISK TRANSPARENCY (MFTERS)	.00	200	100		1001	010	n-1
DEPTH OF 1% SURFACE LICHT (METERS)	;	2.1	•	1.6	;		1
FIELD MEASURENTS		. }		}	6	1	0
NATER TEMPERATURE (550 C) SPEC CONDUCTANCE, FLO (1MHO/CM 25C) CAIDATION HEDUCTION POTENTIAL (NV)	72.		1 9 1		7.00		90 94
DISSULVED DXYGEN, ELECTRODE (MG/L) PH (STD WILTS)	7.00	11	7.00	11	200	11	9.0

TABLE C-6c

PARAHETER NAME (UNITS)	STATION 07 9/25/79	STATION 07 9/25/79	STATION 9725/79	STATION 08 9/25/79	STATION 06 9/25/79	STATION 06 9/25/79	STAT ION 09 9/25/79
MURCLOGICAL DATA							
TOTAL DEPTH (METERS) NAVE NEIGHT (METERS) CURHENT SPICED (FPS) PHYSICAL DATA	o 611	6	• ! !		n 0,1	0 • ! ! • ! !	0 0 0 0 0
. MI SCELLANEOUS DATA						•	• •
** X-SECTION LOC (XFROM R-OK LK UPST) ** SAMPLE DEPTH ("ETERS) ** SECCHI DISK TRANSPARENCY (METERS)	0001	.0 0 • i	1430	910	.00) 0.−1 •#	910
DEPTH OF IT SURFACE LIGHT (METERS)	;	1		6.1	1	1	0-1
FIELD MEASURENCHIS							•••
SPEC CENDUCT ANCE, FLD (UNICYCH 25C)	24.5	N .00	101.	• (0.20	24.0	:::
DISSOLVED OXYGEN, ELECTRODE (MG/L)	9 9 1 9 9	6.90	7.00	11	7.00	7.00	11

PARAMETER NAME (UNITS)	STATION 09 9/25/79	STATION 09 9/25/79	STAT 10N 09 9/25/79	STATION 10 9/25/79	STATION 10 9/25/79	STATION 10 9/25/79	STATION 10 9/25/79
HYDROLOGICAL DATA		 					·
TOTAL DENTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FP3, PHYSICAL CATA	o • ! !	o #	% []	0110	211		011
MISCELLANEDUS DATA			•	• •			
X-SECTION LOC (XFROM R-UK LK UPST) SAGPLE DEPTH (VETERS) SECCHI DISK TRANSPARENCY (METERS)	 	*0 0*1 %n i	841	0 0	1.00	90 I	ww !
DEPTH OF 1% SURFACE LIGHT (METERS)	1	}	;	6.0	:	!	!
FICLO HE ASURENENTS					•	•	• •
MATER TEMPERATURE (DEG C) SPEC CONTUCTANCE, FLD (UM-MO/CM 25C) GXIDATICN REDUCTION PCTENT,AL (MV)	2 2 3 8 6 0 0	0.00 0.00 0.00	24.0 87.0	111	S S S S S S S S S S S S S S S S S S S	24.0 87.0	24.0
DISSOLVED CXYGEN, ELECTRODE (MG/L) PM (STD UNITS)	6.5 0.0 0.0 0.0	6.5 8.0 8.0	6.80	11	6.95	6.80	5.6

TABLE C-6e

	STATION 10 9/25/79	STATION 11 9/25/79	STATION 11 9/25/79	STATION 11 9/25/79	STATION 11 9/25/79	STATION 11 9/25/79	STATION 12 9/24/79
HYDRGICAL DATA							•
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CURRENT SPEED (FPS.)	211	900 900	•	3	:::	:::	400
PHYSICAL DATA	•••						
MISCELLANEDUS DATA	••	••		-	••	, .	
X-SECTION LDC (XFRCM R-BK LK UPST) . SAMPLE DEPTH (METERS) . SECCHI DISK TRANSPARENCY (METERS) .	000	9	75.	1.0	90.0	. O	, in
DEPTH OF 1% SURFACE LIGHT (METERS)	;	0.1	!		!	!	S • 1
FIELD MEASUREMENTS	• • •	• •	,	•	••		
WATER TEMPERATURE (DEG C) SPEC CONDICTANCE, FLD (UMHOZCM 25C). OXIDATION REDUCTION POTENTIAL (MV)	24.0	!!!	23.5 93.	24.5 94.5	24.5 94.5	0 *0 *0	111
DISSCLVED CXYGEN, ELECTRODE (MG/L)	5.8	11	6.8 7.10	7.10	7.15	001.	11

14. COOL CASSON TO PERMANEL 140. CONT. SOCIALIS SOCIALIS

TABLE C-6f

PARAMETER NAVE (UNITS)	STATION 12 9/24/79	STATION 13 9/24/79	STATION 13 9/24/79	STATION 13 9/24/79	STATION 13 9/24/79	STATION 13 9/24/79	STATION 13 9/24/79
HYDRULDGICAL DATA		• • •					
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CURRENT SPEED (FP.5) PHYSICAL DATA	ν. - 1	000	011	•	:::	•	311
MISCELLANEOUS SATA X-SECTION LOC (XFRCM R-DK LK UPST) SAMPLE DEPTH (MFTERS) SECCHI DISK TRANSPARENCY (METERS)	90 ~ i		•m 0•1 mol		**************************************	กต่	00 NA
DEPTH OF 1% SURFACE LIGHT (METERS) .		0	1		;	1	;
SPEC CONDICTANCE, FLD (UMHD/CM 25C). CRIDATION REDUCTION POTENTIAL (MV)	80 1 80 1 80 1	!!!	2001 001	M= N= N= 0.00	10.00	N =	900
DISSOLVED CXYGEN, ELECTRODE (MG/L) . PH (STD UNITS)	•	!!	: :	7.70	<u>:</u>	10	!

TABLE C-60

PARAMETER NAME (UNITS)	STATION 13 9/24/79	STATION 14 9/24/79	STATION 14 9/24/79	STATION 15 9/24/79	STATION 15 9/24/79	STATION 15 9/24/79	STAT 10N 15 9/24/79
MYDRCLGGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS)	3	000	; 11	w.o	9		• • • • • • • • • • • • • • • • • • •
PHYSICAL DATA							
MISCELLANE DUS DATA	•	••					
X-SECTION LJC (WHOM R-BK LK UPST) : SAMME DEPTH (METEKS) SECCHI DISK TRAHSPARENCY (METEHS)	•0 80		.0 .0 .0	0.0	•m • i • i	.0 •••	*0 0 * !
CEPTH OF 1% SURFACE LIGHT (METERS)	!	. n		2.5	<u> </u>	1	:
FIELD MEASUREMENTS							
NATER TEMPERATURE (DEG C) SPEC CUNDUCTANCE, FLD (UMMO/CM 25C) CXIDATION REDUCTION POTENTIAL (MV)	24 85.0 0 •0	111	208.	111	24.0 4.53.0 5.00	24.0 150.0	24 184 184 180
CISSOLVED CXYGEN. ELECTRODE (MG/L) .	2.00	11	7.70	::	7.00	7.3	7.60

TABLE C-6h

PARAMETER NAME (UNITS)	STATION 15 9/24/79	STATION 16 9/24/79	STATION 16 9/24/79	STATION 17 9/24/79	STATION 17 9/24/79	STATION 18 9/25/79	STATION 16 9/25/79
MYDRGLOGICAL CATA							
TOTAL DEPTH (METERS) WAVE METGIN (METERS) CURRENT TITED (FPS) PHYST CAL DATA	o	040	•;;;	900	• ! ! • ! !	0011	3 11
MISCELANEGUS DATA	-	•			••		••
X-SECTION LOC (XFRCM R-BK LK UPST) SAMPLE DEDTH (METERS) SECCHI DISK THANSPAKENCY (METERS)	00 4 1 00 1		20-1	81:	%0°-1	910	90-1
DEPTH OF IX SURFACE LIGHT (METERS)	1	2.8	;	3.6	,	F-3	· ·
FILLD MEASUREMENTS	•						
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHG/CM 25C) CRIDATION RECUCTION POTENTIAL (MV)	24.0 156.0 500	:::	131.	111	0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 • 0 •	111	122.
EISSOLVED CXYGEN, ELECTRODE (4G/L)	7.4	11	6.8 7.60	11	7.35	11	7.30

PARAMETER NAME (UNITS)	STATION 19 9/25/19	STATION 19 9/25/79
HYDROLJGICAL DATA		
TOTAL DEPTH (METERS) NAVE HEIGHT (METERS) CURRENT SPEED (FPS)	00m •0• •0•	nii
PHYSICAL DATA		•••
MISCELLANEOUS CATA		
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (NETERS) SECCHI DISK TRANSPARENCY (METERS)	910	8-1
DEPTH OF 1% SURFACE LIGHT (METERS)	1.3	;
FIELD MEASUREMENTS		
WATER TEMPERATURE (DEG C) SP.C CONDUCTANCE, FLD (U:HM/CM 25C)* GXIDATICN REDUCTION PUTENTIAL (MV)	Į I I	24.
DISSELVED EXYGEN. ELECTRODE (MG/L)	11	7.20

TABLE C-7a

CORPS OF ENGINEERS (CONTRACT DACWOLF WATER QUALITY MANAGEMENT STUDY 40

WATER QUALITY SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION 01 12/ 5/79	STATION 01 12/ 5/79	STATION 02 12/8/19	STATION 02 12/5/79	STATION 03 12/5/79	STATION 03 12/ 5/79	87 AT 10N 04 12 / 5/70
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE WEIGHT (METERS) CURPENT SPEED (FPS)	000 8 m	. 11	900 900 900	:11	000 000 000	211	000 000
PHYSICAL DATA							
SAMPLE DEPTH (METERS) SECCHI DISK TRANSPARENCY (METERS)	9,10	2:1	010	8-1	910		9:0
E E T	0	1	2.2	1	m N	1	% N
FIELD MEASUREMENTS WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C): OXIDATION MEDUCTION PUTENTIAL (MV)		1100	111	550	111	0 • 10 ! 10 !	:::
DISSOLVED DXYGEN, ELECTRODE (MG/L)	11	10.9	11	7.80	11	4.01 7.30	!!

TARIF C-7h

PARAMETER NAME (UNITS)	STATION 04 12/ 5/79	STATION 05 12/ 5/79	STATION 05 12, 5/79	STATION 06 12/ 6/79	STATION 06 12/6/79	STATION 12, 6/79	STAT 104 12 679
MYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FPS) PHYSICAL DATA	0	000 •01	; ;;	000 •0• •••	: ::	000 000	911
MISCELLANEOUS DATA	••						••
X-SECTION LOC (KFROM M-BK LK UPST) SAMPLE DEPTH (METERS) SECCHÍ DISK TRANSPARENCY (METERS)	.0	910	.0.1	0 0 0 0	00.1		9-1
DEPTH OF 1% SURFACE LIGHT (METERS)	!	0 N	1	## #		**	!
WATER TEMPERATURE (DEC C) SPEC CONDUCTANCE, FLD (UMHD/CH 25C) GXIDATICN REDUCTION POTENTIAL (MV)	84 I	111	12.0	111	18.0 7.6.	!!!	0,0
DISSOLVED DXYGEN, ELECTHODE (MG/L)	7.30	11	7.02		7.01	11	NO. 01.

PARAMETER NAME (UNITS)	ST AT 10H 07 12 / 6/79	STATION 07 12/ 6/79	STATION 08 12/ 6/70	STATION 06 12/ 6/79	STAT 10N 00 12/ 6/79	STATION 09 12/ 6/79	STAT ION 09 12/ 6/79
HYDROLDGICAL DATA							
TOTAL DEPTH (WETERS) WAVE MEIGHT (METERS) CUARENT SPLED (FTS) PHYSICAL DATA		, ,	000		e:	000	o i i
MISCELLAMEDUS DATA **********************************	90	90. 8m	9 1	9-1 0-1	. NV I	910	n-i
	1	1		1	1		!
SPEC CONDUCTANCE, PLO LUMBOZCH 25C) ONIDATION REDUCTION POTENTIAL (MV)	## !	me!	111	 	20. 70.	111	12.0 7.0.0
DISSCLVED DXYGEN. ELECTRODE (MGAL)	10.2	<u>.</u>	11	70.	• • • •	11	25

TABLE C-74

PARAMETER NAME (UNITS)	STATION 05 12 6/79	STATION 09 12/ 6/79	STATION 00 12/6/79	STATION 12 6/70	STAT TON 10 12/ 6/79	87ATION 12/6/79	STATION 12/ 6/70
MYDROLOGICAL DATA							
TOTAL DEPTH (BETERS) WAVE PETGHT (METERS) CURRENT SPEED (FPS)	o n	611		#00 *0.0 *0.0	80 01 01	311	900 - 00
PHYSICAL DATA							
K-SECTION LOC (MFROM R-BK LK UPST) * SAMPLE DEPTH (METERS) * SECCHI DISK TRANSPARENCY (METERS) *	001	şņ!	9.	816	.0	•0 •0 •0 •1	41 4
DEPTH OF 1% SURFACE LIGHT (METERS) . FIELD MEASUREMENTS		1	1		!	1	•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, PLD (UMMO/CM 25C) DATOATION REDUCTION POTENTIAL (MV)	12.04	0 .0 0 .0	12 44 0 • 0	111	78.6	### ###	:::
DISSOLVED DAYGEN, ELECTHODE (MG/L) : PM (STD UNITS)	100,4	NO	01.4	11	1000	10. 10. 10.	::

PARAMETER NAME (UNITS)	STATION 11 12 / 5/79	STATION 11 12/ 5/79	STATION 11 12/ 5/79	STATION 11 12/5/79	STATION 12 12/ 6/79	STATION 12 12/ 6/79	\$7 AT 10M 13 12 6/79
HYDROLUGICAL DATA							
CORNENT (METERS) LUANENT SOURCE (FPS) CURNENT SOURCE (FPS)	*!!	:11	:11	. 11	000 100 200		000 100 100 100
** ** ** ** ** ** ** ** ** ** ** ** **	•0 •••	•• •• ••	901	***	0 0 0	8-1 9-1	9011
· DEPTH OF IX SURFACE LIGHT (METERS) · · PIELD MEASUREMENTS	;	1	1	1	0		0
** WATER TEMPERATURE (DEG C) ** SPEC COMDUCTANCE, FLD (UMMOZEW 25C) ** OXIDATION REDUCTION POTENTIAL (MV) **	0 • 0 • 6 n • 6 n	190 190 190 190	86.0 824.0			0.00	111
DISSOLVED DAYGEN, ELECTHODE (MG/L) . PM (STD UNITS)	70 70 70 70	0.01 0.00	40.		11	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11

TABLE C-7f

ACTION OF THE PROPERTY OF THE

PARAMETER NAME (UNITS)	STATION 13 127 6/79	STATION 13 12/ 6/79	STATION 13	STATION 13 12/ 6/79	STATION 14 12/ 3/79	STATION 14 12/3/79	STATION 15 12/3/79
HYDROLDGICAL DATA							
TOTAL DEPTH (METERS) WAVE MEIGHT (METERS) CURRENT STED (FPS)	211	211	211	211	800 	-11	130
PHYSICAL DATA MISCELLANEOUS DATA							
K-SECTION LOC (WFGOM R-BK LK UPST) SAMPLE DEPTH (METERS) SECCPI DISK TRANSPARENCY (METERS)	90-1	80 80 1	901	86 1		 	.
DEPTH OF 1% SUNFACE LIGHT (AETERS)	1	1	1	1	•	1	
AATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CH 25C) OXIDATION REDUCTION POTFNIIAL (MV)	4 .0 .12 .13	2.0 8.0 8.0	115 500.5 115 115 115 115 115 115 115 115 115 1	8 · ·	111	0.00	111
DISSCLYFD DAYGEN, ELECTRODE (MG/L)	7.30	7.25	M.C.	8		1000	11

PARAMETER NAME (UNITS)	STATION 15 12/ 3/79	STATION 15 12/ 3/79	STATION 15 12/ 3/79	STATION 16 12/ 3/79	STAT 10M 18/ 3/79	STATION 12, 3779	STATION 17 12/ 3/79
MYDROLDGICAL DATA							
TOTAL DEPTM (METERS) #AVE MEJGMT (WETERS) CLUMPENT SPEED (FP:) PMYSICAL DATA		; ;;	:11	000	•	904	
MISCELL ANEOUS DATA	••				•••		••
X-SECTICY LOC (MPTERS) SAMPLE DEPTH (MPTERS) SECCHI DISK TRANSPARENCY (METERS)	.0	.0	 0	\$1 :	n-1	91-	
DEPTH OF 1X SURFACE LIGHT (METERS)	;	•	1	2:1	;		;
FIELD MEASUREMENTS	•••				•••		••
** SPEC CONDUCTANCE, FLD (UMHD/CM 25C)* OXIDATION REDUCTION POTENTIAL (MV)	N .00.0	200 600 8 • 0	100. 100. 100.	111	0.20 1.00 1.00 1.00 1.00 1.00 1.00 1.00	:::	0.01 NO 1
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	90	•0 ••		11	06.9	11	F 00

TARIF C-7

PARAMETER NAME (UNITS)	STATION 18 18 12 4/79	STATION 16 12/ 4/75	STATION 19 12/ 4/79	STATION 19 12/ 4/79
HVDROLDGICAL DATA				
TOTAL DEPTH (METERS) WAVE HEIGHT (METERS) CURRENT SPEED (FP.5) PHYSICAL DATA	60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9	000 10 t 10 t	•11
X-SECTION LDC (KFROW R-BK LK UPST) SAMPLE DEPTH (METENS) SECCHI DISK TRANSPARENCY (METERS)	• 8 6 1 0	8	9 0	9-1
DEPTH OF 1% SURFACE LIGHT (METERS)	0	1	0 0	1
** AATER TEMPERATURE (DEG C) ** SPEC CONDUCTANCE, FLD (UMMD/CM 25C) ** OXIDATION REDUCTION POTENTIAL (MV) ** DISSOLVED OXYGEN, ÉLECTRODE (MG/L)		Ø • Ø • • Ø • • Ø • Ø • Ø • Ø • Ø • Ø •	111 1	0 1 0 100 0
PH (STD UNITS)		7.00		7.00

APPENDIX D WATER QUALITY SAMPLING RESULTS

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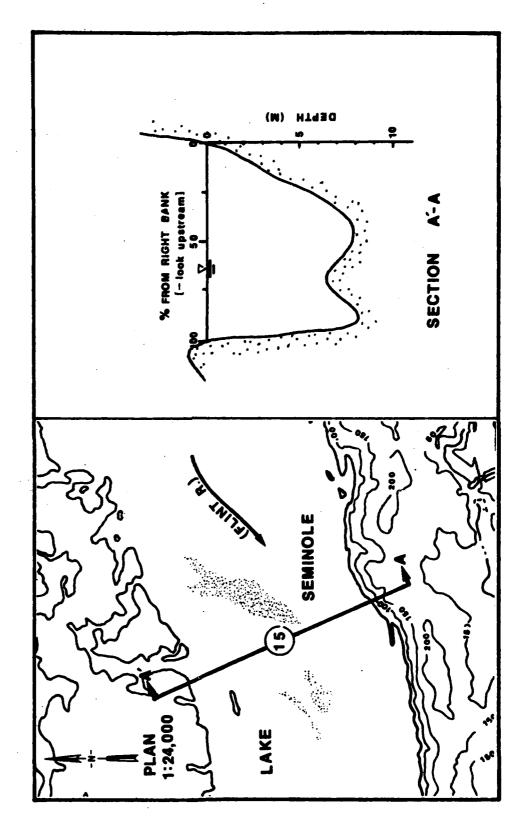


FIGURE D-1. TYPICAL PLAN AND CROSS SECTION OF A LAKE SEMINOLE SAMPLING STATION.

TABLE D-1a

** Lake Seminole water quality management study **

corps of Engineers (contract dacwo1-78-C-0101) Phase II, cycle 1 (2/19-22/1979

water quality sampling results

Grab Samples

0 IV	D Samples			
PARAMETER NAME (UNITS)	STATION 01 2/21/79	STATION 02 2/21/79	STATION 03 2/21/79	STATION 04 2/21/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	7.5 61.	7.5 61.	8.0 62.	8.0 67.
DISSOLVED OXYGEN. ELECTRODE (MG/L) PM (STD UNITS)	12.8 7.10	12.9 7.10	13.0 7.10	12.9 7.10
LABORATORY DATA	•		_	
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 8.60 53.	60. 9.10 53.	60. 9.10 60.	70. 9.00 81.
TCTAL NONFILTERABLE RESIDUE (MG/L)	12.	14.	25.	21.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACOS/L) CMLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	11. 5. 7.	12. 4: 7:	12. 5. 7.	14. 5. 9.
CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACD3/L) IRDN, DISSOLVED (UG FE/L)	4.5 19.5 190	4.3 19.3 200	4.6 20.5 180	21.0 170
IRON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L) MANGANESE. DISSOLVED (UG MN/L)	980 1.4 < 50	1370 1.4 < 50	1340 1.4 < 50	1480 1.4 < 50
MANGANESE. TOTAL (UG MN/L) POTASSIUM. TOTAL (MG K/L) SCDIUM. TOTAL (MG NA/L)	50 2.3 4.90	60 2.5 5.00	60 2.3 5.90	86 2.6 7.70
ZINC. TOTAL (UG ZN/L)	30	20	20	40
NUTRIENTS	<u>.</u>	•	- 	
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	6. 6. 2.3	5. 5. 2.5	4. 5. 2.5	7. 8. 2.9
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITPATE+NITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.02 0.49 0.51	<0.02 0.47 <0.49	<0.02 0.49 <0.51	<0.02 0.45 <0.47
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL DRGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.4 0.4 0.9	0.5 < 0.5 1.0	0.5 < 0.5 1.0	0.6 < 0.6 1.0
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.03	0.01	<0.01 0.04	<0.01 0.05
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA	•	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FICAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	2 2 3 2 8 0 0 2 2	2:17 3:25 0:00	2.59 6.03	3 · 30 3 · 63 0 · 05
	-	-	-	-

TABLE D-1b

PARAMETER NAME (UNITS)	STATION	STATION 06	STATION 07	STATION
	2/21/79	2/21/79	2/20/79	2/20/79
PHYSICAL DATA				
MISCELLANEOUS DATA				•
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	1.0
FIELD MEASUREMENTS				:
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIGATION REDUCTION POTENTIAL (MV)	8.0 80.	80.	10.0 91. 410	10.0 88. 410
DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	12.5 7.10	12.2 7.20	10.6 7.40	10.4 7.50
LABORATORY DATA			•	•
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	85. 8.10 70.	70. 9.60 91.	70. 4.60 78.	70. 4.60 71.
TOTAL NONFILTERABLE RESIDUE (NG/L)	17.	25.	13.	8.
CHEMICAL DATA				•
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG 504/L)	19. 4. 12.	15. 5. 11.	33. 7	30. 6. 12.
CALCIUM. TOTAL (MG CA/L) HARONESS. TOTAL (MG CACO3/L) IRON. DISSOLVED (UG FE/L)	5.7 22.3 150	5.0 21.1 150	7.4 25.8 200	7.1 25.0 210
IRON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MM/L)	1300 - 1.0 - 50	1390 1.4 < 50	830 1.3 80	860 1.3 < 90
MANGANESE. TOTAL (UG MN/L) PCTASSIUM. TOTAL (MG K/L) SODIUM. TOTAL (MG NA/L)	70 2.6 8.80	80 2.3 8.30	70 1.1 5.20	90 1.8 7.50
ZINC. TOTAL (UG ZN/L)	30	20	20	20
NUTRIENTS	•	•	•	
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	7. 8.	7. 8. 2.5	3. 5. 3.3	5. 6. 2.4
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TUTAL INORGANIC (MG N/L)	0.03 0.47 0.50	0.10 0.47 0.57	<0.02 0.50 <0.52	<0.02 0.49 <0.51
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.6 0.6	0-6 0-5 1-0	0.5 < 0.5 1.0	0.6 < 0.6 1.1
DRTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.02	<0.01 0.05	0.01	0.02 0.05
BIDLOGICAL DATA	•	•	•	•
BACTERIDLOGICAL DATA	•	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	2.48 2.78 0.51	2 · 36 3 · 25 0 · 13	< 0.0	1 · 8 6 1 · 9 2 0 · 8 7

TABLE D-1c

PARAMETÉR NAME (UNITS)	STATION 09 2/20/79	STATION 10 2/20/79	STATION 2/20/79	STATION 12 2/22/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LDC (XFROM R-BK LK UPST) Sample Depth (Meters)	40. 1.0	60. 1.0	70. 1.0	50. 1.0
FIELD MEASUREMENTS	·			
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	9.0 79. 430	9.0 79. 420	9.0 79. 440	12.8 93.
DISSCLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	11.0 7.60	10.9 7.40	11.3 7.50	9.9 7.70
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	65. 5.10 63.	60. 6.60 64.	65. 7.10 61.	25. 2.10 90.
TOTAL NONFILTERABLE RESIDUE (MG/L)	13.	15.	13.	4.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (NG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (NG SO4/L)	23. 3. 9.	24. 6. 10.	27. 4. 2.	40. 4. 2.
CALCIUM. TOTAL (MG CA/L) MARDNESS. TOTAL (MG CACO3/L) IRCN, DISSOLVED (UG FE/L)	5.0 20.3 210	4.6 18.8 210	6 • 2 22 • 2 230	11.5 33.9 80
IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MN/L)	960 1.4 70	1160 1.4 70	1050 1.2 < 50	410 1.1 < 50
MANGANYSE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L) SODIUM, TOTAL (MG NA/L)	70 2.2 7.50	90 2.2 7.10	50 1.6 5.30	< 50 1.3 3.70
ZINC, TOTAL (UG ZN/L)	20	30	20	20
NUTR IZNTS				
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG COZ/L)	3. 5. 1.5	3. 6. 2.5	3. 6. 2.2	5. 6. 1.9
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. HITRATE NITRITE (MG N/L) NITROGEN. TOTAL INDRGANIC (MG N/L)	<0.02 0.45 <0.47	<0.02 0.45 <0.47	<0.02 0.35 <0.40	0.14 0.08 0.12
NITROGEN, TOTAL KJELDAHL (MG N/L) NITROGEN, TOTAL ORGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.6 < 0.5 1.0	0.6 < 0.6 1.0	0.5 < 0.5 0.8	0.3 0.3 0.4
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.05	0.02	0 • 0 1 0 • 0 5	<0.01 0.02
BIOLOGICAL DATA	•	•	•	:
BACTERIOLOGICAL DATA	•	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1 · 2 8 1 · 4 1 0 · 7 3	0 · 9 5 1 · 2 3 0 · 5 3	1 · 18 0 · 85 2 · 14	0 · 70 1 · 0 0 0 · 5 0

TABLE D-1d

PARAMETUR NAME (UNITS)	STATION 13 2/19/79	\$TATION 14 2/22/79	STATION 15 2/19/79	STATION 16 2/19/79
PHYSICAL DATA			•	
MISCELLANEOUS DATA			•	•
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
field measurements				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMMO/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	10.0 75. 450	13.0	10.5 90. 400	10.5 101.
DISSGLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	10.4 7.70	9•3 7•70	10.2 7.70	10.0 7.60
LABORATORY DATA				
COLOR (PT-CO UNITS) TURSIDITY, MACH TURBIDINETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	80. 9.60 65.	35, 2.40 116.	80. 7.60 70.	80. 9.60 90.
TOTAL NONFILTERABLE RESIDUE (MG/L)	٠.	5.	10.	•
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG 804/L)	24 . 6 .	78. 5. < 1.	31. 6.	36. 7.
CALCIUM. TOTAL (MG CA/L) HARONESS. TOTAL (MG CACO3/L) IFGN. DISSOLVED (UG FE/L)	7.3 25.9 250	20.8 55.8 80	8.1 27.8 250	10.9 34.4 200
IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MM/L)	1420 l.l < 50	410 0.8 < 50	1410 1 1 < 50	1300
MANGANZSE, TOTAL (UG MN/L) PCTASSIUM, TOTAL (NG K/L) SODIUM, TOTAL (NG NA/L)	60 1.4 2.60	< 50 0.6 3.40	60 1.4 2.70	< 50 3.00
ZINC. TOTAL (UG ZN/L)	30	10	30	20
NUTRIENTS				•
CARDON. D'SSOLVED ORGANIC (MG C/L) CARBON. TLTAL DRGANIC (MG C/L) CARDON DIOXIDE (MG COZ/L)	1.2	5. 5. 3.7	3. 4. 1.5	4. 5. 2.3
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. HITRATE NITRITE (MG N/L) NITROGEN. TOTAL INDRGANIC (MG N/L)	<0.02 0.38 <0.40	0.02 0.38 0.40	0.02 0.42 0.44	0.02 0.45 0.47
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.5 < 0.4	0.3 0.3 0.7	0.5 0.4 0.9	0.4
ORTHOPHOSPHATE: DISSOLVED (MG P/L) PHOSPHORUS: TOTAL (MG P/L)	0.04	<0.01 0.02	0.03	0. 04 0. 05
BIOLOGICAL DATA		•	•	
BACTERIOLOGICAL DATA				
FFCAL COLIFORM (LOGIO(/IOOML)) FECAL STREPTOCOCCI (LOGIO(/IOOML)) FC/FS RATIO	19:34	1:75	< 8 <u>:1</u> 3	1:11

TABLE D-1e

PARAMETER NAME (UNITS)	STATION 17 2/19/79	STATION 18 2/20/79	STATION 19 2/20/79
PHYSICAL DATA			
MISCELLANEOUS DATA			
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS	•) 	•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) DXIDATION PEDUCTION POTENTIAL (MY)	10.5 97.	9.0 74.	9.0 77.
DISSOLVED DXYGEN. FLECTRODE (MG/L) PH (STD UNITS)	9. 5 7. 80	11.0 7.40	10.7
LABORATORY DATA	•		•
COLOR (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (HG/L)	75. 7.40	70 . 7 . 1 0 63 .	65. 9.90 70.
TOTAL NONFILTERABLE RESIDUE (MG/L)	9.	13.	16.
CHEMICAL DATA	•		- - -
MINERALS AND METALS			•
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	37. 5.	26. 4. 6.	25. 4. 6.
CALCIUM. TOTAL (MG CA/L) HARDNESS. TOTAL (MG CACO3/L) IRGN. DISSOLVED (UG FE/L)	10.8 33.4 250	6.3 23.6 230	24.1 240
· IPON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L) MANGANTSE. DISSOLVED (UG MN/L)	1300	1230 1.3 < 50	1240
MANGANESE. TOTAL (UG MN/L) PCTASSIUM. TOTAL (MG K/L) SODIUM. TOTAL (MG NA/L)	< 50 1.2 2.10	60 1.7 5.00	60 1.8 5.40
ZINC. TOTAL (UG ZN/L)	20	20	30
NUTRIENTS	:	•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 1.5	3. 6. 2.7	4. 5. 3.2
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.02 0.47 0.49	0.03 0.38 0.41	<0.02 0.40 <0.42
NITROGEN, TOTAL KJELDAML (MG N/L) NITROGEN, TOTAL ORGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.5 0.4 0.9	0.5 0.4 0.8	< 0.4 < 0.3 0.8
CRTHCPHOSPHATE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.05	0.01	0.01
HIDLOGICAL DATA	•	•	:
BACTERIOLOGICAL DATA	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FICAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	3:15 13:70	1:43	1.08 0.60 3.00

* * LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY **

TABLE D-2a

• •

WATER QUALITY SAMPLING RESULTS
Grab Samples

a.g. anh iez					
PARAMETER NAME (UNITS)	STATION 01 4/4/79	STATION 02 4/4/79	STATION 03 4/4/79	STATION 04 4/4/79	
PHYSICAL DATA	•				
MISCELLANEOUS DATA					
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0	
FIELD MEASUREMENTS.					
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	15.0 54.	15.0 54.	15.0 58.	15.0 58.	
DISSOLVED OXYGEN. ELECTRODE (MG/L) Pr (STD UNITS)	9.8 7.20	9.8 7.10	9.8 7.20	10.0 7.20	
LABORATORY DATA	•				
COLOR (PT-CO UNITS) TURBIDITY: HACH TURBIDINETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 29.00 51.	60. 30.00 53.	65. 31.00 50.	50. 16.00 47.	
TOTAL NONFILTERABLE RESIDUE (MG/L)	45.	47.	57.	20.	
CHEMICAL DATA					
MINERALS AND METALS					
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) IFON, DISSOLVED (UG FE/L)	210	11.	11. 3. 200	18. 5. 170	
IRON. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MM/L) MANGANESE. TOTAL (UG MM/L)	2900 < 50 120	3160 < 50 130	3450 < 50 140	1200 < 50 < 50	
ZINC, TOTAL (UG ZN/L)	. 30	30	30	30	
NUTRIENTS				•	
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG COZ/L)	7. 7. 1.5	5. 7. 1.9	5. 7. 1.5	5. 6. 2.6	
NITROGEN. TOTAL AMMONIA (MG M/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.04 0.36 0.40	0.05 0.35 0.40	0.05 0.35 0.40	<0.02 0.34 <0.36	
ORTHOPHOSPHATE. DISSCLVED (MG P/L) PHOSPHORUS. TOTAL (MG P/L)	<0.01 0.06	6.01 0.06	<0.01 0.06	<0.01 0.04	

TABLE D-2b

PARAMETER NAME (UNITS)	STATION 05 4/4/79	STATION 06 4/4/79	STATION 07 4/3/79	STATION 08 4/ 3/79
PHYSICAL DATA			•	
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-8K LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	105. 1.0
FIELD MEASUREMENTS			•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	15.0 66.	16.0 65.	17.0 75. 400	17.0 87. 420
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	10.0 7.30	9.6 7.20	7.30	8.8 7.10
LABORATORY DATA			:	•
COLOR (PT-CO UNITS) TURBIDITY. HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	60. 20.00 56.	55. 15.00 54.	45. 12.00	48. 12.70 69.
TOTAL NONFILTERABLE RESIDUE (MG/L)	28.	15.	14.	15.
CHEMICAL DATA				
MINERALS AND METALS	•	•	•	•
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) IRON, DISSOLVED (UG FE/L)	14. 6. 200	15. 6. 160	20. 7. 210	20. 7. 200
IRON. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MN/L) MANGANESE. TOTAL (UG MN/L)	1600 < 50 < 50	1220 < 50 < 50	1030 < 50 < 50	1100 < 50 < 50
ZINC. TOTAL (UG ZN/L)	30	40	50	20
NUTRIENTS	•	- •	•	•
CARBON. DISSOLVED ORGANIC (MG C/L) CARGON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	6. 6. 1.5	6. 6. 2.1	5. 5. 2.1	5. 3. 5
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0.02 0.32 0.34	0.03 0.33 0.36	<0.02 0.35 <0.37	<0.02 0.36 <0.38
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.04	0.01	<0.01 0.04	<0.01 0.04

TABLE D-2c

PARAMETER NAME (UNITS)	STATION 09 4/3/79	STATION 10 4/ 2/79	STATION 11 4/ 3/79	8TATION 13 4/ 2/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50.	50. 1.0	85. 1.0	40. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHD/CM 2EC) DXIDATION REDUCTION POTENTIAL (MV)	18.0 74. 390	18.0 71. 380	19.0 89. 290	19.0 106. 340
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STO UNITS)	8.9 7.30	9.0 7.30	7.10	10.6
LABORATORY DATA		•		
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	50. 13.00 58.	48. 16.00 56.	40. 8.20 60.	39. 7.40 79.
TCTAL NONFILTERABLE RESIDUE (MG/L)	19.	20.	12.	16.
CHEMICAL DATA				
MINERALS AND METALS	•			
ALKALINITY. TOTAL (MG CACO3/L) SULFATE. TOTAL (MG SO4/L) IRON. DISSOLVED (UG FE/L)	18. 7. 220	12. 6. 250	29. 5. 160	35. 2. 250
· IRON, TOTAL (UG FE/L) · MANGANESE. DISSOLVED (UG MN/L) · MANGANESE. TOTAL (UG MN/L)	1180 < 50 50	1380 < 50 60	760 < 50 < 50	1080 < 50 < 50
ZINC. TOTAL (UG ZN/L)	50	60	20	30
NUTRIENTS	!	•	•	•
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	4.	6. 7. 1.3	< 5. 3. 4.9	5. 3. 0.6
· NITROGEN, TOTAL AMMONIA (MG N/L) · NITROGEN, NITRATE+NITRITE (MG N/L) · NITROGEN, TOTAL INDRGANIC (MG N/L)	0.02 0.27 0.29	<0.02 0.27 <0.29	<0.02 0.25 <0.27	<0.02 0.43 <0.45
OFTHOPHOSPHATE. DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01	<0.01 0.04	<0.01 0.04	0.02

TABLE D-2d

PARAMETER NAME (UNITS)	\$TATION 14 4/ 2/79	STATION 15 4/ 2/79	STATION 16 4/ 2/79	STATION 17 4/ 2/79
PHYSICAL DATA			•	
MISCELLANEOUS DATA			•	
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS	•		•	•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	22.0 201. 420	20.0 105. 280	16.7	18.0
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	9. 0 8. 40	9.8 7.80	8.8 7.40	8.4 7.80
LABORATORY DATA			•	•
COLOR (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	23. 4.70	7.90 76.	42. 5.70 67.	42. 5.70 81.
TOTAL NONFILTERABLE RESIDUE (MG/L)	4.	10.	4.	4.
CHEMICAL DATA		,		
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SOA/L) IRON, DISSOLVED (UG FE/L)	85. < 1. 140	37. 2. 220	43. 2. 260	44. 2. 210
IRON. TOTAL (UG FE/L) MANGAMESE. DISSOLVED (UG MN/L) MANGAMESE. TOTAL (UG MN/L)	350 < 50 < 50	1090 < 50 < 50	600 < 50 < 50	630 < 50 < 50
ZINC. TOTAL (UG ZN/L)	< 10	60	40	20
NUTRIENTS			•	<u>.</u> •
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOX 105 (MG CO2/L)	5. 5. 0.7	3. 5. 1.2	3. 3.7	3. 4. 1.5
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+HITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	<0.02 0.36 <0.38	<0.02 0.46 <0.48	<0.02 0.51 <0.53	<0.02 0.50 <0.52
ORTHOPHOSPHATE: DISSOLVED (MG P/L) PHOSPHORUS: TOTAL (MG P/L)	<0.01 0.02	<0.01 0.05	0.02	0.03

TABLE D-2e

PARAMETER NAME (UNITS)	STATION 18 4/3/79	STATION 19 4/3/79
PHYSICAL DATA		
MISCELLANEOUS DATA		1
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0
FIELD MEASUREMENTS		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	19.0 101.	19.0
DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	8.4 7.80	7.80
LABORATORY DATA	•	: ;
COLCR (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERAGLE RESIDUE (MG/L)	39. 7.50 73.	39 8.30 55
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	13.
CHEMICAL DATA	•	: :
MINERALS AND METALS	•	1
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SC4/L) IFON, DISSOLVED (UG FE/L)	38. 190	38. 200
IRON. TOTAL (UG FE/L) MANGANTSE. DISSOLVED (UG MN/L) MANGANESE. TOTAL (UG MN/L)	880 < 50 < 50	980 < 50 < 50
ZINC. TOTAL (UG ZN/L)	< 10	20
NUTR IENTS	:	
CARBON. DISSOLVED DRGANIC (MG C/L) CARBON. TOTAL DRGANIC (MG C/L) CARBON DIDXIDE (MG CO2/L)	< 5. 5. 1.3	5. 5. 1.3
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.02 0.32 0.34	0.02 0.28 0.30
ORTHOPHOSPHATE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01	0.02

+* LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II, CYCLE 3 (6/4-6/1979)
WATER QUALITY SAMPLING RESULTS

TABLE D-3a

PARAMETER NAME (UNITS)	, STATION , 01 , 6/6/79	STATION 02 6/ 6/ 6/79	STATION 03 6/6/79	STATION (
PHYSICAL DATA	,	,	,	
MISCELLANEOUS DATA		,		
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (NETERS)	50. 1. 0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS	•	,	•	, ,
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24.0 51.	24. 0 53.	24.0 53.	24.0 56.
DISSOLVED OXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	7. 6 6. 90	7. 7 7. 00	7.8 6.90	7.00
LABORATORY DATA		•		;
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	55. 17. 00 38.	18, 00 28.	55. 17. 00 30.	60. 19.00 36.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	14.	12.	16.
CHEMICAL DATA				
MINERALS AND METALS	,			
ALKALINITY, TOTAL (MG CACU3/L) SULFATE, TUTAL (MG SO4/L) SULFIDE, TUTAL (MG S/L)	13. 4. < 0.1	13. 3. < 0. 1	13. < 0.1	14. 5. < 0.1
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG NN/L)	150 1550 < 50	120 1520 < 50	130 1570 C 50	110 1580 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	70 30	< 10	90 10	80 10
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	6. 3. 2	6. 6. 2. 6	5. 6. 3. 2	6. 8. 2.8
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0.09 0.21 0.30	0.09 0.22 0.31	0. 09 0. 28 0. 37	0. 09 0. 28 0. 37
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0. 03 0. 04	0. 03 0. 04	0. 01 0. 03	0. 03 0. 04
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA				
FECAL COLIFORM (LOG10(/100ML)) FECAL STREPTOCOCCI (LOG10(/100ML)) FC/FS RATIO	0. 95 1. 62 0. 21	1. 51 2. 11 0. 25	0. 95 1. 61 0. 22	1. 32 2. 63 0. 05

TABLE D-3b

PARAMETER NAME (UNITS)	STATION 05 6/6/79	STATION 06 6/6/79	STATION 07 6/ 5/79	STATION 07 6/ 5/79
PHYSICAL DATA	•	, ,	; ;	, ,
MISCELLANEOUS DATA				•
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1 0	50. 1. 0	50. 1.0	5 0. 9. 0
FIELD MEASUREMENTS	•	,		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24. 0 66.	24.0 61.	25. 0 68. 400	 350
DISSOLVED DXYGEN, ELECTRODE (MG/L)	7. 1 7. 00	7. 1 6. 90	7.5 7.30	6. 40
LABORATORY DATA	,	,	•	•
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	15.00 55.	15.00 46.	17. 00 66.	17. 18.00 58.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	10.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				
/ ALKALINITY, TOTAL (MG CACO3/L) / SULFATE, TOTAL (MG SD4/L) / SULFIDE, TOTAL (MG S/L)	19. < 0. 1	16. 5. 0.1	< 15. < 0. i	17. < 0. 1
/ IRON, DISSOLVED (UG FE/L) / IRON, TOTAL (UG FE/L) / MANGANESE, DISSOLVED (UG MN/L)	150 1120 < 50	140 1100 < 50	230 1250 < 50	< 50 1210 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 10	< 10	< 50 20	< 50 < 10
NUTRIENTS	•	,		
CARBON, DIGSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIGXIDE (MG CO2/L)	7. 6. 3. B	6. 7 3. 9	7. 8. 1.8	5. <u>6</u> .
NITROGEN, TOTAL AMMONIA (M) N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0. 07 0. 29 0. 36	0.06 0.23 0.29	0. 07 0. 23 0. 30	0. 06 0. 25 0. 31
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0. 02 0. 07	0. 02 0. 03	0. 03 0. 03	0. 02 0. 03
BIOLOGICAL DATA	•	•	,	,
BACTERIOLOGICAL DATA	;	•	,	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1. 23 1. 99 0. 17	1. 38 1. 76 0. 42	1. 78 1. 64 1. 36	

TABLE D-3c

PARAMETER NAME (UNITS)	STATION CB 6/5/79	STATION 09 6/5/79	STATION 09 6/5/79	STATION (
PHYSICAL DATA	,	,	,	•
MISCELLANEOUS DATA		•	:	
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	105. 1. 0	5 0. 1. 0	70. 4. 0	50. 1. 0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	25. 0 68. 370	26. 0 67. 400	25. 0 68. 410	25.0 63. 400
DISSOLVED OXYGEN, ELECTRODE (MG/L)	7. 2 7. 20	8. 8 7. 40	6.3 7.10	7.3 7.30
LABORATORY DATA				
CGLOR (PT-CD UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	45. 18.00 57.	23. 22.00 45.	36. 28. 00 62.	30. 25.00
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	< 10.	13.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	20. < 0.1	19. < 0.1	19. 4 < 0.1	18. < 0.1
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UC FE/L) MANGANEBE, DISSOLVED (UG MN/L)	230 1230 < 50	170 1170 < 50	< 50 1830 < 50	220 1800 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 50 10	< 10	< 10	60
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	< 6. 2.5	< 6. 6. 1. 5	6. 2. 9	5. 6. 1. 8
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0. 07 0. 25 0. 32	0. 07 0. 17 0. 24	0. 04 0. 21 0. 25	0. 05 0. 20 0. 25
ORTHOPHOSPHATE, DISSOLVED (MG P/L)	0. 02 0. 03	<0.01 0.03	0. 01 0. 04	0. 02 0. 03
BIOLOGICAL DATA	,	,	,	
BACTERIOLOGICAL DATA	,	,	,	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	<0.00 2.48 <0.01	1. 30 2. 78 0. 03	,	1.75 1.62 1.33

TABLE D-3d

PARAMETER NAME (UNITS)	STATION 10 6/ 5/79	STATION 11 6/ 5/79	STATION 11 6/ 3/79	STATION 12 6/6/79
PHYSICAL DATA	,	,	,	,
MISCELLANEOUS DATA	•	,	•	
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (HETERS)	50. 6. 0	80. 1. Q	80. 5. 0	50. 1.0
FIELD MEASUREMENTS	•	,	•	:
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	25. 0 70. 400	27. 0 77. 340	25.0 82. 380	29.0 97.
PH (STD UNITS)	6.2 7.00	7. 2 8. 00	7. 20	7.6
LABORATORY DATA			;	;
' COLOR (PT-CO UNITS) ' TURBIDITY, HACH TURBIDIMETER (FTU) ' TOTAL FILTERABLE RESIDUE (MG/L)	27. 27.00 50.	18.00 49.	23. 18. 00 33.	18. 1.80 49.
TOTAL NONFILTERABLE RESIDUE (MG/L)	18.	< 10.	14.	< 10. €
CHEMICAL DATA			:	
MINERALS AND METALS	•	•	•	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	18. 4. < 0. 1	26. 5. < 0. 1	24. < 0.1	37. < 1. < 0.1
' IRON, DISSOLVED (UG FE/L) ' IRON, TOTAL (UG FE/L) ' MANGANESE, DISSOLVED (UG MN/L)	C 50 1820 C 50	220 650 50	1130 50	< 50 580 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	90 10	< 50 < 10	; < 70 ; < 10	70
NUTRIENTS	;	:	;	;
' CARBON, DISSOLVED ORGANIC (MG C/L) ' CARBON, TOTAL ORGANIC (MG C/L) ' CARBON DIOXIDE (MG CO2/L)	5. 6. 3.5	6. 8. 0. 5	6. 6. 2. 9	< 8. 8.
' NITROGEN, TOTAL AMMONIA (MC N/L) ' NITROCEN, NITRATE-NITRITE (MG N/L) ' NITROGEN, IDTAL INDRGANIC (MG N/L)	0. 07 0. 20 0. 27	0. 02 0. 17 0. 19	0. 02 0. 20 0. 22	0. 04 0. 02 0. 06
ORTHOPHOSPHATE, DISSOLVED (MC P/L) PHOSPHORUS, TOTAL (MC P/L)	<0.01 0.05	0. 01 0. 03	0. 03 0. 04	<0. 01 <0. 01
BIOLOGICAL DATA	,		,	•
BACTERIOLOGICAL DATA	•	•	,	:
FECAL COLIFORM (LOG10(/100ML)) FECAL STREPTOCOCCI (LOG10(/100ML)) FC/FS RATIO	; <u></u>	0.00 1.54 0.03	; ==	 \$0.00 \$2.32 \$0.01

TABLE D-3e

PARAMETER NAME (UNITE)	STATION 13 6/4/79	STATION 13 6/4/79	STATION 14 6/ 4/79	STATION 15 6/4/79
PHYSICAL DATA	,	,	,	,
MISCELLANEOUS DATA	,	,		•
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	40. 1.0	40. 8. 0	50. 1.0	40. 1. 0
FIELD MEASUREMENTS		,	,	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UM:10/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28. 0 136. 340	25. 0 149. 370	17.0 226.	28.0 130. 310
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (SID UNITS)	10.3 8.50	76.2 7.70	7. 1 8. 40	9. 5 8. 40
LABORATORY DATA	,	,	;	-
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	3.80 78.	24. 15. 00 86.	15. 4. 10 104.	23. 9.60 78.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	10.	< 10.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACU3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	55. 1. < 0. 1	58. 2. < 0. 1	44. < 1. < 0.1	48. 2. < 0.1
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG NN/L)	60 310 < 50	< 50 1000 < 50	70 170 < 50	100 1040 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 50 20	< 110 < 10	< 50 20	60 30
NUTRIENTS		,		
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	3. 5. 0. 3	4. 2.3	< 4. 0.4	3. 0.4
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0. 05 0. 36 0. 41	0. 10 0. 47 0. 57	0, 04 0, 53 0, 57	0. 06 0. 42 0. 48
ORTHOPHOSPHATE, DISSOLVED (MG P/L)	0. 01 0. 04	0. 02 0. 07	0. 02 0. 03	0. 01 0. 06
BIOLOGICAL DATA	- •		•	
BACTERIOLOGICAL DATA	•		•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	0. 00 0. 48 0. 33	; =	1. 54 1. 82 0. 53	1.00 0.90 1.25

TABLE D-3f

PARAMETER NAME (UNJIS)	8TATION 15 6/ 4/79	STATION 16, 6/ 4/79	STATION 17 6/4/79	STATION (18 6/3/79)
PHYSICAL DATA	,	,	,	
MISCELLANEOUS DATA		•		: 1
X-SECTION LOC (%FROM R-BK LK UPST) SAMPLE DEPTH (METERS)	40. 6. 0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS	,	,	•	;
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	26.0 135. 310	26.0 127.	25.0 105.	26.0 73.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	8. 0 7. 90	6. B 7. 40	7. 40	7. 1 7. 50
LABORATORY DATA	•	,	•	:
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	30. 14.00 80.	50. 4.50 76.	48. 15,00 72.	13.00 79.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	< 10.	< 10.	13.
CHEMICAL DATA				
MINERALS AND METALS	•		,	,
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SD4/L) SULFIDE, TOTAL (MG S/L)	53. C 0 1	54. 2. < 0.1	47: 2. < 0.1	33. C 0. 1
/ IRON, DISSOLVED (UG FE/L) / IRON, TOTAL (UG FE/L) / MANGANESE, DISSOLVED (UG MN/L)	50 1430 50	360 1630 50	440 1520 50	160 980 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	100	< 50 20	< 50 40	< 10
NUTRIENTS		:		:
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	3. 4. 1.3	2. 3. 4. 1	3. 4. 3.6	é. 6. 2.0
NITROGEN, TOTAL AMMUNIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0. 04 0. 53 0. 57	0. 0B 0. 70 0. 7B	0. 07 0. 68 0. 75	0. 04 0. 23 0. 27
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0. 02 0. 05	0.06 0.07	0. 0 <u>6</u> 0. 07	0: 04 0: 04
BIOLOGICAL DATA	,	;	,	:
BACTERIOLOGICAL DATA	,	<i>;</i>	,	<i>:</i>
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RAYIO	; == ; ==	2. 61 1. 11 31. 50	2. 66 1. 15 34. 90	0.00 3.66 <0.01

TABLE D-3g

PARAMETER NAME (UNITS)	STATION 6/ 5/79
PHYSICAL DATA	,
MISCELLANEOUS DATA	,
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1. 0
FIELD MEASUREMENTS	;
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	26. 0 98.
DISSOLVED DYYGEN, ELECTRODE (MG/L)	6. 9 7. 40
LABORATORY DATA	,
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	9. 15. 00 56.
TOTAL NONFILTERABLE RESIDUE (MG/L)	11.
CHEMICAL DATA	
MINERALS AND METALS	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SD4/L) SULFIDE, TOTAL (MG S/L)	33. < 0. 1
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	120 960 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 10
, NUTRIENTS	;
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	< 6. 2.5
' NITROGEN, TOTAL AMMONIA (MO N/L) ' NITROGEN, NITRATE+NITRITE (MG N/L) ' NITROGEN, TOTAL INDRGANIC (MG N/L)	0. 04 0. 23 0. 27
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0. 01 0. 03
; BIOLOGICAL DATA	
BACTERIOLOGICAL DATA	-
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	0. 48 3. 97 <0. 01

TABLE D-4a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **

CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-010') PHASE II, CYCLE 4 (7/16-19/1979)

WATER QUALITY SAMPLING RESULTS

Grab Samples

Up to	2911h 162			
PARAMETER NAME (UNITS)	STATION 01 7/19/79	STATION 02 7/19/79	STATION 03 7/18/79	STATION 04 7/18/79
PHYSICAL DATA				
NISCELLANEOUS DATA				•
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS			•	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHO/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	27.5 60.	28.0 64.	27.5 67.	28.0 73.
PH (STD UNITS)	7.3 7.30	7.0 7.00	8-1 7-10	7.10
LABORATORY DATA			•	
COLOR (PT-CO UNITS) TURBICITY, HACH TURBICIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	32. 7.00 61.	38. 8.50 60.	45. 9.80 56.	70. 12.00 68.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	11.	11.	27.
CHEMICAL DATA		•	•	
MINERALS AND METALS	•			
ALKALINITY, TOTAL (MG CACO3/L) SULFAIE, TOTAL (MG SOA/L) SULFIDE, TOTAL (MG S/L)	16. 5. < 0.1	17. 5. < 0.1	20. 4. < 0.1	23. 11. < 0.1
IRCN. DISSOLVED (UG FE/L) IRCN. TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	60 650 < 50	60 730 < 50	1 00 10 30 < 50	100 1580 60
MANGANESE; TOTAL (UG MN/L) ZINC, TOTAL (UC ZN/L)	50 60	50 20	60 40	130 20
NUTR I ENTS	•		•	:
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 5. 1.5	5. 6. 3.1	5. 6. 3.0	10. 3.4
· NITROGEN, TOTAL AMMONIA (MG N/L) · NITROGEN, NITRATE+NITRITE (MG N/L) · NITROGEN, TOTAL INORGANIC (MG N/L)	0.05 0.17 0.22	0.02 0.17 0.19	0.02 0.24 0.25	0.04 0.24 0.28
ORTHOPHOSPHATE, DISSOLVED (NG P/L) PHOSPHORUS, TOTAL (NG P/L)	<0.01 0.04	<0.01 0.04	0.01 0.05	<0.01 0.06
BIOLOGICAL DATA		•	•	
BACTERIOLOGICAL DATA	•		•	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	0.00 1.68 0.02	0.85 1.82 0-11	<0.00 1.89 <0.01	1.90 2.32 0.38

TABLE D-4b

PARAMETER NAME (UNITS)	STATION 05 7/18/79	STATION 06 7/18/79	STATION 07 7/18/79	STATION 07 7/18/79
PHYSICAL DATA		1		
MISCELLANEOUS DATA	,			
X-SECTION LOC (XFROM R-BK LK UPST) Sample Depth (Meters)	50. 1.0	50. 1.0	40. 1.0	40. 6-0
FIELD MEASUREMENTS		·		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE. FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.0 77.	27.0 77.	28.0 80. 350	28.0 83. 360
DISSOLVED DXYGEN. ELECTRODE (MG/L) PM (STO UNITS)	7.9 7.20	7.9 7.10	7.4 7.30	7.4 7.20
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	70. 19.00 76.	65. 13.00 72.	65. 12.00 78.	65. 13.00 73.
TOTAL NONFILTERABLE RESIDUE (MG/L)	29.	12.	10.	11.
CHEMICAL DATA			• •	•
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	19. 8. < 0.1	21. 6. < 0.1	23. 6. < 0.1	22. 6. < 0.1
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FF/L) MANGANESE. DISSOLVED (UG MN/L)	100 1810 < 50	180 1380 < 50	120 870 < 50	110 1350 < 50
MANGANESE, TOTAL (UG MN/L) Zinc, Total (UG Zn/L)	140 20	100 10	< 50 30	< 50 30
NUTRIENTS				
CARDON. DISSOLVED DRGANIC (MG C/L) CARBON. TOTAL DRGANIC (MG C/L) CARBON DIOXIDE (MG COZ/L)	6. 8. 2.2	4. 9. 3.2	6. 8. 2.2	5. 6. 2.6
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.06 0.26 0.32	0.04 0.36 0.40	0.06 0.26 0.32	0.05 0.26 0.31
DRTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.06	0.01 0.06	<0.01 0.05	<0.01 0.05
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA				
FECAL COLIFORM (LOGIO(/100ML)) FICAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	<0.00 2.46 <0.01	<0.00 1.85 <0.01	0.70 1.41 0.19	==

TABLE D-4c

PARAMETER NAME (UNITS)	STATION 08 7/17/79	STATION 09 7/17/79	STATION 09 7/17/79	STATION 10 7/17/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 5.0	40. 1.0
FIFLD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE, FLD (UMHD/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	28.0 88. 410	28.0 80. 370	27.5 81. 380	28.0 80. 370
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	6.3 7.40	7.3 7.60	5.2 7.20	6.7 8.20
LABORATORY DATA		-		
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	95. 13.00 73.	95. 12.00 64.	110. 15.00 69.	80. 12.00 62.
TOTAL NONFILTERABLE RESIDUE (NG/L)	9.	13.	13.	14.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACOS/L) SULFATE, TOTAL (MG SOA/L) SULFIDE, TOTAL (MG S/L)	< 28. 6. < 0.1	23. 7. < 0.1	24. 7. < 0.1	24. 7. < 0.1
IPON. DISSOLVED (UG FE/L) IRCN. TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	100 850 < 50	100 850 < 50	100 930 < 50	60 800 < 50
MANGANESE, TOTAL (UG MN/L) Zinc, Total (UG Zn/L)	80 30	120 40	160 20	110 20
NUTRIENTS			-	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	6. 8. 2.1	7. 7. 1.1	5. 6. 2.9	5. 0.3
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INOPGANIC (MG N/L)	<0.02 0.21 <0.23	0.02 0.17 0.19	0.04 0.18 0.22	0.02 0.09 0.11
DRTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01 0.05	<0.01 0.04	0.02 J.05	<0.01 0.04
E-DLOGICAL DATA				
BACTERIOLOGICAL DATA				
FECAL COLIFORM (LUGIO(/100ML)) FFCAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.04 1.65 0.24	0.00 1.53 0.03		<0.00 1.53 <0.03

TABLE D-4d

	STATION	STATION	STATION	STATION
PARAMETER NAME (UNITS)	7/17/79	7/17/79	7/17/79	7/18/79
PHYSICAL DATA				
MISCELLANEOUS DATA			·	
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	40. 5.0	60. 1.0	60. 5.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.0 80. 390	29.0 63. 400	28.0 97. 380	30.0 86.
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	6.2 7.30	7.1 7.60	4.2 7.50	A.3 7.30
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	100. 15.00	75. 11.00	75. 11.00 75.	15. 1.60 71.
TOTAL NONFILTERABLE RESIDUE (MG/L)	15.	10.	17.	2.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATC, TOTAL (MG SOA/L) SULFIDE, TOTAL (MG S/L)	26. 7 < 0.1	27. 6. < 0.1	29. 5. < 0.1	34. < 1. < 0.1
TRON. DISSOLVED (UG FE/L) TRON. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MN/L)	60 910 < 50	80 800 < 50	80 650 < 50	< 50 120 < 50
MANGANESE. TOTAL (UG MN/L) ZINC. TOTAL (UG ZN/L)	140 20	90 20	130 30	< 50 30
NUTRIENTS				
CARDON. DISSOLVED ORGANIC (MG C/L) CARDON. TOTAL ORGANIC (MG C/L) CARDON DIOXIDE (MG CO2/L)	5. 6. 2.4	5. 6. 1.3	5. 6. 1.7	6. 6. 3.1
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0.02 0.20 0.22	0.02 0.10 0.12	0.02 0.19 0.21	0.05 0.02 0.07
DETHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.04	0.01 0.04	0.01 0.04	<0.01 0.02
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA				
FFCAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/F3 RATIO		<0.00 0.48 <0.33		<0.48 0.90 <0.43

TABLE D-4e

		· ·		
PARAMETER NAME (UNITS)	STATION 13 7/16/79	STATION 13 7/16/79	STATION 14 7/16/79	STATION 15 7/16/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFRON R-BK LK UPST) SAMPLE DEPTH (METERS)	30. 1.0	30. 8.0	50. 1.0	60. 4.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPFC CONDUCTANCE. FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MY)	31 • 0 136 • 340	27.0 146. 360	29.0 184.	30.0 126. 362
DISSOLVED DXYGEN. ELECTRODE (MG/L) PM (STD UNITS)	9.2 8.50	5.2 7.50	9.2 8.00	12.3 8.70
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDINETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	20. 9.10 101.	35. 17.00 99.	23. 5.00	28. 8.50 92.
TOTAL NONFILTERABLE RESIDUE (MG/L)	5.	24.	5.	9.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	59. 2. < 0.1	55. 2. < 0.1	81. 2. < 0.1	50. 3. < 0.1
IRON. DISSOLVED (UG FF/L) IRON. TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	60 390 < 50	90 1620 90	90 250 < 50	60 400 < 50
MANGANESE. TOTAL (UG MN/L) Zinc. Total (UG ZN/L)	< 50 30	260 40	< 50 30	60 30
NUTRIENTS		,		
CARBON. DISSOLVED DRGANIC (MG C/L) CARBON. TOTAL DRGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 6. 0.3	4. 5. 3.3	6. 7. 1.5	4. 7. 0.2
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATC+NITRITE (MG N/L) NITROGEN, TOTAL INDPGANIC (MG N/L)	0.03 0.20 0.23	0.06 0.57 0.62	0.06 0.37 0.43	<0.02 0.35 <0.37
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.03	0.03 0.07	<0.01 0.02	<0.01 0.07
BIOLOGICAL DATA	•			
BACTERIOLOGICAL DATA	•		· •	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	0.00 0.48 0.33		0.90 1.58 0.21	0.60 0.78 0.67

TABLE D-4f

PARAMETER NAME (UNITS)	STATION 15 7/16/79	STATION 16 7/16/79	STATION 17 7/16/79	STATION 18 7/17/79
PHYSICAL DATA	•		•	•
MISCELLANEOUS DATA		· ·		
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	60. 3.0	5. 1.0	5. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHD/CM 25C) DXIDATION REDUCTION POTENTIAL (MV)	28.5 126. 330	27.5 114.	27.0 106.	28.5 113.
DISSOLVED DXYGEN, ELECTRODE (MG/L) PM (STD UNITS)	8.8 8.30	6.8 7.60	5.6 7.20	6.6 7.50
LABORATORY DATA	•		•	
COLOR (PT-CD UNITS) TURBIDITY, HACH TUPBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	33. 9.00 136.	45. 9.20 86.	55. 9.60 89.	65. 9.40 81.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	7.	10.	12.
CHEMICAL DATA	•	•	•	
MINERALS AND METALS	•	•	•	:
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	46. 3. < 0.1	42. 3. < 0.1	37. 3. < 0.1	41. 5. < 0.1
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MN/L)	80 740 < 50	110 810 < 50	260 1200 < 50	70 1020 < 50
MANGANESE, TOTAL (UG MN/L) Zinc, Total (UG ZN/L)	80	60	1 00 50	120 20
NUTRIENTS	•	•	•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL DPGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	6.	5. 6. 2.0	5. 6.	5. 7. 2.4
MITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.02 0.53 0.55	0.03 0.52 0.55	<0.02 0.48 <0.50	0.02 0.22 0.24
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01	0.03 0.06	0.03	<0.01 0.04
BIOLOGICAL DATA	•		•	•
BACTERIOLOGICAL DATA	•	:	•	
FECAL COLIFORM (LOGIO1/100ML)) FFCAL STREPTOCOCCI (LOGIO1/100ML)) FC/FS RATIO	===	1.95 1.04 6.18	2.10 1.89 1.62	0.48 3.32 <0.01

TABLE D-4g

PARAMETER NAME (UNITS)	STATION 19 7/17/79
PHYSICAL DATA	
MISCELLANEOUS DATA	•
X-SECTION LOC (XFPOM R-BK LK UPST) Sample Depth (Meters)	50. 1.0
FIELD MEASUREMENTS	
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLO (UMHO/CM 25C) OXIDATION PEDUCTION POTENTIAL (MV)	28.5 112.
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	6.6 7.30
LABORATORY DATA	
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	65. 9.60 82.
TOTAL NONFILTERABLE RESIDUE (MG/L)	12.
CHEMICAL DATA	
MINERALS AND METALS	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	40. 5. < 0.1
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MANGANESE. DISSOLVED (UG MN/L)	60 920 < 50
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	110 30
NUTRIENTS	
CARRON, DISSOLVED ORGANIC (MG C/L) CARBON, TCTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 5. 3.7
NITPOGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.05 0.22 0.27
ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01 0.05
BIOLOGICAL DATA	
BACTERIOLOGICAL DATA	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.11 3.46 <0.01

TABLE D-5a

00 LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY 40 CURPS OF ENGINEERS (CUNTRACT DACWO1-78-C-0131) PHASE II. CYCLE 5 (8/13-16/1979)

WATER QUALITY SAMPLING RESULTS

Gra	ab Samples			
PARAMETER NAME (UNITS)	STATICN 01 8/15/79	STATION 02 8/15/79	STATION 03 8/15/79	STATION 34 8/15/79
PHYSICAL DATA	•			•
MISCELLANEOUS DATA				
* X-SECTION LOC (MFFOM R-BK LK UPST) * SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS	•			
MATER IEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHQ/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.0 61.	28.0 73.	28.0 74.	29.C 64.
DISSCLVED DXYG::N. ELECTRODE (MG/L) PH (STD UNITS)	7.8 7.90	7.3 7.30	7 • 8 7 • 30	7.8 8.10
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	24. 3.83 47.	22. 4.30 47.	22. 4.50 42.	26. 3.90 45.
TOTAL NUNFILTERABLE RESIDUE (MG/L)	4.	6.	< 2.	4. :
CHEMICAL DATA			•	•
MINERALS AND METALS			•	•
ALKALINITY, TOTAL (NG CACO3/L) CHLORIDE (NG CL/L) SULFATE, TOTAL (NG SGA/L)	17. 4.	18.	22. • 4. • 5. •	12.
SULFICE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 3.7 26.0	< 0.1 4.1 29.0	< 0.1 4.2 31.0	< 0.1 3.8 34.0
IRON. DISSULVED (UG FE/L) IPON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L)	80 540 1.5	70 620 1.6	90 560 1.5	150 600
MANGAMESE. DISSCLVED (UG MN/L) HANGAMESE. TOTAL (UG MN/L) PCTASSIUM. TOTAL (MG K/L)	< 50 70	< 50 80 2.0	< 50 60 1.9	< 50 60 2.0
SCDIUM. TGTAL (MG NA/L) Zinc. Tgtal (ug zn/l)	3.90 40	5.00	5.00	5.80 100
NUTRIENTS	į	i		i
CARDEN, DISSOLVED DRGANIC (MG C/L) CARDEN, TOTAL DRGANIC (MG C/L) CARDON DIGXIDE (MG COZ/L)	4. 5. 3.1	4. 5. 1.7	4. 5. 2.2	5. 6.
NITEGEN. TOTAL AMMONIA (MG N/L) NITEGEN. NITEATE+NITEITE (MG N/L) NITEGEN. TOTAL INORGANIC (MG N/L)	0.03 0.95 0.13	0.05 0.08 0.13	0.05 9.04 0.13	0.02 0.09 0.11
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.5 0.5 0.6	0.5 0.5 0.6	0.5 0.5 0.6	0.7 0.7 0.8
OFTHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.02	<0.01 0.02	<0.01 0.02	<0.01 0.05
BIOLOGICAL DATA	•	•		•
BACTERIOLOGICAL DATA		;		
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGID(/100ML)) FC/FS HATIO	1.04 1.73 0.18	1.11 1.73 0.15	1.00 1.51 0.31	1.06 1.48 0.40

TABLE D-50

PARAMETER NAME (UNITS)	STATION 05 8/15/79	STATION 06 8/15/79	STATION 07 8/14/79	STATION 07 8/14/79
PHYSICAL DATA			 ! !	•
MISCELLANEOUS DATA	•		•	
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.J	50. 5.0
FIELD MEASUREMENTS		,	:	3.0
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	28.0 89.	28.0 84.	29.5 96. 480	27.5 103.
DISSOLVED OXYGEN. ELECTRODE (MG/L) PH (SID UNITS)	5.4 8.30	7.3 7.90	7.6 7.40	5.3 7.50
LABORATORY DATA				
CCLCR (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	49. 6.50 65.	34. 4.50 59.	36. 3.00 80.	36. 4.80 70.
TOTAL NONFILTERABLE RESIDUE (MG/L)	4.	5.	7.	9.
CHEMICAL DATA				;
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLURIDE (MG CL/L) SULFATE, TOTAL (MG SQ4/L)	26. 5. 8.	24. 4. 6.	32. 5. 6.	34 . 4 . 7 .
SULFICE. TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HAPDNESS, TOTAL (MG CACO3/L)	< 0.1 4.0 33.0	< 0.1 7.3 34.0	< 0.1 8.8 55.0	< 0.1 4.9 50.0
IRCN+ DISSOLVED (UG FEZL) IRCN+ TOTAL (UG FEZL) MAGNESIUM+ TOTAL (MG MGZL)	90 650 1.4	90 690 1.6	1 60 590 I •6	140 330 1.5
MANGANESE: DISSGLVED (UG MNZL) MANGANESE: TOTAL (UG MNZL) PCTASSIUM: TOTAL (MG KZL)	90 133 1.9	110 180 2.0	< 50 113 2.0	< 50 50 1.8
SCDIUM: TOTAL (MG NAZL) ZINC: TOTAL (UG ZNZL)	8•70 20	7.70 30	4.00	3.50 20
NUTRIENTS		•		•
CARBON DISSOLVED ORGANIC (MG C/L) CARBON TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	7. 8. 0.5	6. 0.6	5. 5. 2.3	5. 6. 2.1
NITTOGEN. TOTAL AMMONIA (MG N/L) NITEGEN. NITEATE+NITEITE (MG N/L) NITEGEN. TGTAL INDRGANIC (MG N/L)	0.03 0.10 0.13	0.02 0.14 0.16	<0.02 0.19 <0.21	0.02 0.20 0.22
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.6 0.6 0.7	0.6 0.6 0.8	0.6 > 0.6 < 0.8	0.5 0.5 0.7
ORTHOPHOSPHATE: DISSOLVED (AG P/L) PEGSPHORUS: TOTAL (MG P/L)	<0.01 0.03	<0.01 0.03	<0.01 0.02	<0.01 0.02
BIOLOGICAL DATA	•	:	•	_
BACTEPIOLOGICAL DATA	•	•	;	1
FECAL COLIFORM (LOGIO(/100ML)) FCCAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS PATIO	<0.00 1.49 <0.03	1.20 1.53 0.47	0.78	

TABLE D-5c

					_
PARAMETER NAME (UNITS)	STATION 08 2/14/79	STATION 09 8/14/79	STATION 09 8/14/79	STATION 10 8/14/79	•
PHYSICAL DATA	•	•	•	•	:
MISCELLANEOUS DATA		•			•
X-SECTION LOC (*FROM R-8K LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50(3 • §	50. 1.0	•
FIELD MEASUREMENTS					:
*ATER TEMPERATURE (DEG C) 50EC CONDUCTANCE: FLD (UMHO/CM 25C) 6xICATION REDUCTION POTENTIAL (MV)	28.0 96. 500	29.0 86. 470	28 •0 88 • 483	29.0 85. 500	
DISSOLVED OXYGEN. ELECTRODE (MG/L) PM (STD UNITS)	6.2 7.30	6.0 7.50	4.5 7.30	7.0 7.70	•
LABORATORY DATA					•
CCLCR (PT-CO UNITS) TURBICITY: HACH TURBICINETER (FTU) TOTAL FILTERABLE RESIDUE (HGZL)	39. 5.50 74.	55. 8.10 69.	70. 14.00 74.	65. 9.00 73.	,
TCTAL NONFILTERABLE RESIDUE (MG/L)	11.	10.	15.	10.	•
CHEMICAL DATA					•
MINERALS AND METALS					•
ALKALINITY, TOTAL (MG CACC3/L) CHLCRIDE (MG CL/L) SULFATE, TOTAL (MG SC4/L)	32. 3. 6.	27. 4. 6.	27. 4. 5.	27. 4. 5.	•
SULFICE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0 • 1 6 • 5 48 • 0	< 0.1 5.0 34.0	< 0.1- 4.7 39.0	< 0.1 5.9 41.0	,
IRGN. DISSOLVED (UG FEZL) IRGN. TOTAL (UG FEZL) MAGNESIUM. TOTAL (AG MGZL)	150 700 1.5	160 860 1.5	150 960 1.5	100 1170 1.6	
MAYGANESE, DISSGLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) PCTASSIUM, TOTAL (HG K/L)	< 50 150 1•9	50 190 2•0	60 250 1 • G	< 50 190 2•1	
SCDILM, TOTAL (MG NAZL) Zinc, Total (UG ZNZL)	7•00 50	7.80 110	6.50 110	7•50 40	
NUTRIENTS					
CARBON, DISSOLVED BRGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 5. 3.0	5. 6. 1.6	5. 6. 2.6	5. 7. 1.9	
PITFOGEN: TOTAL AMMONIA (MG N/L) HITPOCCN: PITPATE:PNITRITE (MG N/L) NITPAGEN: TOTAL INORGANIC (MG N/L)	0.03 0.18 0.21	0.10 0.07 0.17	0.13 0.09 0.18	C.09 C.07 O.16	,
NITPOCEN, TOTAL KJELDAHL (MG N/L) HITROGEN, TOTAL OPGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.6 0.0 8.0	0.7 0.6 0.7	0.6 0.5 0.7	0.6 0.5 0.7	,
OFTHCPHOSPHATE: DISSOLVED (MG P/L) PHCSPHORUS: TOTAL (MG P/L)	<0.01 0.03	<0.01 0.04	<0.01 0.03	<0.01 0.04	,) ,
BIOLOGICAL DATA					•
BACTERIOLUGICAL DATA	•				
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.43	1.11		0.70	
					,

TABLE D-5d

PARAMETER NAME (UNITS)	STATION 10	STATION	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STATION
	8/14/79	8/14/79	8/14/79	8/16/79
PHYSICAL DATA				
MISCELLANEOUS DATA			•	•
X-SECTION LOC (YFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 6.0	60.	60.	50.
FIELD MEASUREMENTS		•		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHQ/CH 25C) UXIDATION REDUCTION POTENTIAL (MV)	27.5 91. 490	29.5 91. 410	28.5 75. 450	27.5 93.
PISSCLVED DXYGEN. ELECTRODE (MG/L) TH (STD UNITS)	4.5 7.20	8.3 8.05	7.40	7.5
LABORATOPY DATA		•	•	•
CHECK (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	65. 3.50 56.	43. 6.83 68.	43. 6.70 74.	14. 1.10 51.
TOTAL NONFILTERABLE RESIDUE (MG/L)	5.	7.	7•	< 2.
CHEMICAL DATA			•	
MINERALS AND METALS		•	•	
ALKALINITY, TOTAL (MG CACO3/L) CHLCRIDE (MG CL/L) SULFATE, TOTAL (MG 504/L)	27. 4.	29.	27. 3. 5.	37. 3. < 1.
SULFIDE, IDTAL (MG S/L) CALCIUM, IDTAL (MG CA/L) HARDNESS, IDTAL (MG CACO3/L)	1.0 > 5.2 0.8E	< 0.1 8.4 39.0	< 0.1 6.8 43.0	< 0.1 10.5 50.0
IRCN. DISSULVED (UG FE/L) IRCN. TOTAL (UG FE/L) HAGNESIUM, TOTAL (MG MG/L)	110 970 1.5	80 570 1.6	90 510 1.6	260 1.1
MANGANESE, DISSOLVED (UG MN/L) HANGANESE, TOTAL (UG MH/L) PCTASSIUM, TOTAL (UG K/L)	50 240 1.9	< 50 140 1.8	< 50 160 1.7	< 50 < 50 0.2
SODIUM. TOTAL (MG NA/L) Zinc. Total (UG Zh/L)	7•30 70	5.60	5-80	1.50
NUTRIENTS	•	•	•	•
CARBON, DISSULVED DRGANIC (NG C/L) CARBON, TCTAL ORGANIC (NG C/L) CARBON DIC IDE (NG C72/L)	5. 5. 3.2	5. 6. 0.5	5. 5. 2.0	7. 7. 0.9
NITEGEN. TOTAL AMMONIA (MG N/L) NITEGEN. NITRATE MITPITE (MG N/L) NITEGEN. TOTAL INDRGANIC (MG N/L)	0.03 0.08 0.11	0.13	7.05 0.05 0.10	<0.02 0.01 <0.03
NITROGEN. TOTAL KJELDAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.5 0.5	0.6 0.4 0.6	0 • 6 0 • 5 0 • 6	0.5 > 0.5 < 0.6
CRINCHUSPHATE, DISSOLVED (MG P/L) PHCSPHORUS, TOTAL (MG P/L)	<0.01 0.04	<0.01 0.03	<0.01 0.03	0.01
BIULOGICAL DATA	•	:	:	•
EACTEP IDLUGICAL DATA	:	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FECAS RATIO		0.48	==	<0.00 1.59 <0.03

TABLE D-5e

PAPAMETER NAME (UNITS)	STATION 13 8/13/79	STATION 13 8/13/79	STATION 14 8/16/79	STATION 15 8/13/79
PHYSICAL DATA	•	•		
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-DK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 4.0	50. 1.0	40.
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIGATION PEDUCTION PRITENTIAL (MV)	29.5 137. 360	28.5 140. 390	27.0 206.	30.0 140. 350
PH (STD UNITS)	8.5 3.80	5.8 8.10	8.3 8.10	10.4 9.90
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDINETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	26. 5.10 81.	32. 6.90 76.	13. 2.00 114.	32. 3.77 77.
TOTAL NUNFILTERABLE RESIDUE (MG/L)	8.	10.	3.	8.
CHEMICAL DATA				
MINERALS AND METALS			,	
ALKALIHITY, TOTAL (MG CACO3/L) CHESTIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	61. 4. 1.	63. 4. 1.	101. 3. < 1.	64. 4. 2.
SULFICE, TOTAL (MG S/L) CALCIUM: TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 17.6 62.0	< 0.1 17.5 73.0	< 0.1 10.3 117.3	< 0.1 15.0 64.0
IPON. DISSOLVED (UG FE/L) IPON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (HG MG/L)	60 490 1.4	70 700 1.5	70 370 0.5	90 470 1.5
HANGANESE, DISSCLVFD (UG MN/L) HANGANESE, TOTAL (UG MN/L) PCTASSIUM, TOTAL (MG K/L)	< 50 70	< 50 100 1•3	< 50 < 50 0.5	< 50 60 1.2
GUDIUM. TOTAL (MG NAZL) Linc. Total (UG ZNZL)	3.70 70	4.00	2.40 20	3.70 40
NUTRIENTS		•		•
CAPBON. DISSOLVED ORGANIC (MG C/L) SARBON. TOTAL ORGANIC (MG C/L) CAPBON DIOXIDE (MG COZ/L)	6. 0.2	5. 5. 0.9	< 5. 5. 1.5	5. 5. 0.1
HITROGEN, TOTAL AMMONIA (MG N/L) HITROGEN, HITPATE+HITRITE (MG N/L) NITROGEN, TGTAL (NORGANIC (MG N/L)	0.02 0.19 0.20	0.64 0.21 0.25	0.02 0.46 0.50	0.02 0.24 0.26
NITEGEN, TOTAL KJELDAHL (MG N/L) NITEGEN, TOTAL GEGANIC (MG N/L) NITEGEN, TOTAL (MG N/L)	0.7 0.7 0.9	0.7 0.6 0.7	0.4 0.4 0.9	0.7 0.7 0.9
GRTHCPHOSPHATF, DISSCLVED (MG P/L) PhCSPHORUS, TOTAL (MG P/L)	<0.01 0.05	0.01	<0.01 0.02	<0.01 0.06
BIDLOGICAL DATA				
BACTERIOLOGICAL DATA	•			i
FECAL STREPTOCUCCI (LUGID(/100ML)) FECAL STREPTOCUCCI (LUGID(/100ML)) FC/FS RATIO	(0.00 1.03 (0.03	!	<0.00 2.95 0.11	<0.00 0.85 <0.14

TABLE D-5f

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PARAMETER NAME (UNITS)	STATION 15 8/13/79	STATION 16 8/13/79	STATION 17 8/13/79	STATION 18 8/14/79
PHYSICAL DATA	•	•	1	
MISCELLANEOUS DATA				
X-SECTION LOC (MFROM R-EK LK UPST) SAMPLE DEPTH (METERS)	40.	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) DXIDATION REDUCTION PUTENTIAL (MV)	28.0 147. 390	28.5 146.	27.0 144.	28.5 102.
DISSOLVED DXYGEN, ELECTRODE (NG/L) PH (STD UNITS)	6.1 8.10	7.2 8.15	6.5 7.60	6•7 7•60
LABORATORY DATA				
CCLOR (PT-CO UNITS) TURBIDITY: HACH TURBIDIMETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	32. 4.60 77.	23. 3.70 97.	20. 2.50 95.	7.60 73.
TCTAL NUNFILTERABLE RESIDUE (MG/L)	10.	6.	2•	11.
CHENICAL DATA				
HIHERALS AND METALS				
ALKALINITY, TOTAL (MG CACH3/L) CHURIDE (MG CL/L) SULFATE, TOTAL (MG SQ4/L)	63. 5. 1.	63. 5. 1.	63. 4. 2.	36. 4. 5.
SULFICE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 19.7 81.0	< 0.1 16.9 89.0	< 0.1 18.3 86.5	< 0.1 8.4 53.0
IRON, DISSOLVED (UG FE/L) IPON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (NG MG/L)	90 440 1.7	120 530 1.3	130 460 1•2	90 690 1.9
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) PETASSIUM, TOTAL (MG K/L)	< 50 120 1.4	< 50 60 1.3	< 50 < 50 1.3	< 50 160 2.1
SCDIUM. TOTAL (MG NA/L) ZINC. TOTAL (UG ZN/L)	4.70 90	4.20 40	4•50 50	7•40 20
ALTRIENTS				
CAPTICN. DISSOLVED ORGANIC (MG C/L) CAPTICN. TOTAL ORGANIC (MG C/L) CARTICN DIEXIDE (MG CO2/L)	5. 5. 0.9	5. 5. 0.8	5. 5. 3.1	5. 5. 1.A
HITHOGEN. TOTAL AMMONIA (MG N/L) HITHOGEN. HITHATE+NITRITE (MG N/L) HITHOGEN. TOTAL INORGANIC (MG N/L)	0.33 0.27 0.30	0.04 0.50 0.54	0.03 0.51 0.54	0.05 0.07 0.12
NITECCEN. TOTAL KJELDAML (MG M/L) NITECCEN. TGTAL OPGANIC (MG M/L) NITECCEN. TOTAL (MG M/L)	0.6 0.6 0.9	0.5 0.5 1.0	0.5 0.5 1.0	0.6 0.5 0.6
DETHOSHMSTE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01 0.05	0.02 0.04	0.04 0.05	<0.01 0.04
BINLEGICAL DATA				
BACTEPIOLOGICAL DATA				
FFCAL COLIFORM (LOGIO(/100ML)) FFCAL GTREPTOCOCCI (LOGIO(/100ML)) FC/FS PATIO	 	0.85 1.63 0.16	1.00 0.95 1.11	3.36
	•	•	•	,

TABLE D-5g

PARAMETER NAME (UNITS)	STATION 19 a/14/79
PHYSICAL DATA	•
MISCELLANEOUS DATA	•
X-SECTION LOC (XFROM R-OK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0
FIELD MEASUREMENTS	•
WATER TEMPERATURE (DEG C) SFEC CONDUCTANCE, FLD (UNHO/CM 25C) CXIDATION REDUCTION POTENTIAL (MV)	29.0
PISSOLVED DXYGEN. ELECTRODE (HG/L)	5.9 7.50
LABORATORY CATA	•
CCLCE (PT-CO UNITS) TUPBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	33. 7.20 72.
TCTAL NONFILTERABLE RESIDUE (MG/L)	11.
CHENICAL DATA	•
MINERALS AND METALS	•
ALKALINITY, TOTAL (MG CACD3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SG4/L)	37. 4. 5.
SULFICE, TOTAL (MG SAL) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACOJAL)	7.6 58.5
IFCN. DISSOLVED (UG FE/L) IRCN. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L)	100 680 1.5
HANGANESE DISSCLVED (UG MN/L) HANGANESE TOTAL (UG MN/L) PETASSIUM TOTAL (AG K/L)	< 50 160 1.7
SCDIUM, TCTAL (MG NAZL) ZINC. TOTAL (US ZNZL)	6.00
NUTRIENTS	•
CAPTION, DISSOLVED DRGANIC (MG C/L) CAPTION, TOTAL OPGANIC (MG C/L) CARTON DICKIDE (MG CO2/L)	5.
NITROGEN. TOTAL AMMONIA (NG N/L) NITROGEN. NITRATE+HITRITE (NG N/L) NITROGEN. TOTAL INDRGANIC (NG N/L)	0.05 0.07 0.12
NITECCEN. TOTAL KJELDAHL (MG N/L) NITECCEN. TOTAL ORGANIC (MG N/L) NITECCEN. TOTAL (MG N/L)	0.5 0.5 0.6
CRTHOPHOSPHATE, DISSCLVED (NG P/L) PHOSPHORUS, TOTAL (NG P/L)	0.01 0.04
EIOLOGICAL DATA	:
BACTERIOLOGICAL DATA	:
FECAL COLITORY (LOGIS(/100ML)) FECAL STREPTOCUCCI (LOGIS(/100ML)) FC/FS PATIG	3.53

TABLE D-6a

WATER QUALITY SAMPLING RESULTS
Grab Samples

·	Samples			
PARAMETER NAME (UNITS)	STATION 01 9/26/79	51 AT ION 02 9/26/79	STATION 03 9/26/79	STATION 04 9/26/79
PHYSICAL DATA				
MISCELLANEOUS DATA	·			
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (NETERS)	50. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXICATION REDUCTION PCTENTIAL (MV)	23.5 64.	23.5 64.	23.5 66.	23.5 72.
DISSCLVED CXYGEN, ELECTRODE (MG/L) PH (STD UNITS).	8.2 7.10	8.0 7.10	8.0 7.00	8.1 7.00
LABORATORY DATA				
CCLOR (PT-CD UNITS) TURGIDITY. HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	25. 3.50 44.	26. 5.20 38.	27. 5.20 37.	27. 5.40 52.
TCTAL NONFILTERABLE RESIDUE (MG/L)	7.	6.	9.	8.
CHEMECAL DATA				
MINERALS AND METALS			<b>.</b>	
ALKALINITY, TOTAL (MG CACU3/L) SULFATE, TOTAL (MG SD4/L) SULFIDE, TOTAL (MG S/L)	17. 5. < 0.1	17. 5. < 0.1	17. 5. < 0.1	18. 7. < 0.1
IFON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	< 50 420 < 50	< 50 270 < 50	< 50 550 < 50	< 50 380 120
MANGANESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	< 50· 40	< 50 20	< 50 30	< 50 30
HUTRIENTS				
CARBON. DISSULVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DICKIDE (MG CD2/L)	6. 6. 2.6	6. 6. 2.7	6. 3.4	5. 6. 3.4
NITRGEN. TUTAL AMMONIA (MG N/L) NITROGEN. NITRATE.NITRITE (MG N/L) NITRCGEN. TOTAL INORGANIC (MG N/L)	0.03 0.09 0.12	0.04 0.10 0.14	0.05 0.11 0.16	0.03 0.09 0.12
GRINCPHOSPHATE, DISSOLVED (MG P/L)	<0.01 0.03	<0.01 0.03	<0.01 0.03	<0.01 0.03
BIOLOGICAL DATA				
BACTEFICLOGICAL DATA			) } ·	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTHCOCCI (LEGIO(/100ML)) FECALS RATIO	2.21 2.87 0.22	2.26 2.97 0.19	2.27 3.02 0.18	1.76 2.58 0.16

TABLE D-6b

• • • • • • • • • • • • • • • • • • •				
PARAMETER NAME (UNITS)	STATION 05 9/26/79	\$TATION 06 9/26/79	STATION 07 9/25/79	STATION 07 9/25/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50. 7.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMMO/CM 25C) UXIDATION REDUCTION POTENTIAL (M')	23.5 86.	23.0 78.	24.0 95. 340	24.5 101. 420
DISSOLVED OXYGEN. ELECTRODE (MG/L) PM (STD UNITS)	7.6 7.00	7.5 7.00	6.2 6.95	6.2 7. <b>0</b> 0
LABORATORY DATA				
CULUR (PT-CO UNITS) TURBIDITY. HACH TURBIBINETER (FTU) TUTAL FILTERABLE RESIDUE (MG/L)	34. 4.20 52.	37. 5.30 53.	38. 5.00 59.	30. 2.00 43.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	< 10.	< 10.
CHEMICAL DATA	•		•	
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	24. 6. < 0.1	20. 7. < 0.1	<b>29.</b> 6. < 0.1	29. 5. < 0.1
TRUN. DISSOLVED (UG FE/L) TRON. TOTAL (UG FE/L) MANGAMESE. DISSOLVED (UG MM/L)	< 50 410 60	< 50 540 < 50	100 200 < 50	< 50 518 < 50
MANGANESE, TOTAL (UG MN/L) Zinc. Total (Ug zn/L)	60 30	< 50 20	<b>6</b> 0 10	40 20
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DITIXIDE (MG COZ/L)	7. 8. 4. 7	6. 6.	5. 6. 6.3	
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL [NORGANIC (MG N/L)	0.09 9.11 0.20	0.04 0.23 0.27	0.06 0.15 0.23	0.11 0.17 0.20
ONTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	10.03 E0.0	<0.01 0.03	<0.01 0.03	<0.01 <b>0.0</b> 3
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA	-		·	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.15 2.52 0.04	2.15 2.69 0.29	1.00 2.65 0.02	==

TABLE D-6

PARAMETER HAME (UNITS)	STATION 08 9/25/79	STATION 99 9/25/79	STATION 09 9/25/79	ST AT ION 0 10 9/25/79
PHYSICAL DATA '			•	•
MISCELLANEOUS DATA	,			
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 4.0	50. 1.0
FIELD MEASUREMENTS		•		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24.0 92. 430	23.5 88. 580	24.0 87. 570	23.0 85. 490
DISSULVED DXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	6.8 7.00	5.9 6.85	5.8	6.0 6.95
LABORATORY DATA		•	•	
CCLOR (PT-CC UNITS) TURBIOITY: MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	38. 5.00 51.	70. 25.00 59.	55. 25.00 57.	55. 28.00 60.
TOTAL NONFILTERABLE RESIDUE (MG/L)	13.	30.	30.	34.
CHEMICAL DATA				•
MINERALS AND METALS		•		•
ALKALINITY, TUTAL (MG CACO3/L) SULFATE, TOTAL (MG \$04/L) SULFIDE, TOTAL (MG \$/L)	26. 6. < 0.1	23. 8. < 0.1	23. 7. < 0.1	22. 7. < 0.1
IFON: DISSCLVED (UG FE/L) IGO: TGTAL (UG FE/L) MANGANESE: DISSOLVED (UG MN/L)	< 50 590 < 50	60 1990 < 50	1900 < 50	50 000 00 >
MANGANESE. TOTAL (UG MN/L) Zinc. Total (Ug Zn/L)	70 20	130	120 60	130 20
NUTRIENTS		:	•	•
CARDON. DISSULVED DRGANIC (MG C/L) CARLON. TCTAL'OPGANIC (MG C/L) CAPDON DIOXIDE (MG CO2/L)	4. 6. 5.3	6.3	5. 6. 7.0	5. 7. 4.7
NITREGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INDRGANIC (MG N/L)	0.14 0.12 0.26	0.10 0.06 0.18	0.09 0.08 0.17	0.09 0.08 0.17
CETHOPHOSPHATE, DISSULVED (MG P/L) PHESPHORUS, TUTAL (MG P/L)	<0.01 0.04	<0.01 0.03	<0.01 0.03	<0.01 0.03
BIDLUGICAL DATA	•	•	•	•
EACTERIOLOGICAL DATA	•	•	:	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STRLPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.11 2.68 0.03	0.46 3.15 <0.01		1.00 3.43 <0.01

TABLE D-6d

PARAMETER NAME (UNITS)	STATION 10 9/25/79	STATION 11 9/25/79	STATION 11 9/25/79	STATION 12 9/24/79
PHYSICAL DATA				
MISCELLANEOUS DATA		•		
X-SECTION LOC (XFROM R-9K LK UPST) SAMPLE DEPTH (METERS)	50. 6.0	75. 1.0	75. 5.0	50. 1.0
FIELD MEASUREMENTS		•		
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIGATION REDUCTION POTENTIAL (MY)	24.0 90. 480	23.5 93. 450	23.0 94. 440	23.5 95.
DISSULVED CXYGEN, ELECTRODE (MG/L) PH (STD UNITS)	5.8 6.80	6.8 7.10	6.8 7.10	7.7 7.35
LAUDRATORY DATA				
CCLCR (PT-CD UNITS) TURBIDITY, HACH TURBIDINETER (FTU) TCTAL FILTERABLE RESIDUE (MG/L)	60. 31.00 54.	50. 18.00 59.	60. 22.00 60.	12. <1.90 63.
TOTAL NONFILTERABLE RESIDUE (MG/L)	35.	22.	26.	< 2.
CHEMICAL DATA	•	•	•	
MINERALS AND METALS	;	•		:
ALKALINITY, TOTAL (NG CACO3/L) SULFATE: TOTAL (NG SG4/L) SULFIDE: TOTAL (NG S/L)	22. 8. < 0.1	28. 6. < 0.1	26. 7. < 0.1	38. 3. < 0.1
IRCN. DISSOLVED (UG FEZL) IRCN. TOTAL (UG FEZL: MANGANESE, DISSOLVED (UG MMZL)	50 900 < 50	50 1530 < 50	< 50 1450 < 50	< 50 250 < 50
MANGANESE, TOTAL (UG MN/L) Zinc, Total (UG Zn/L)	136.2 60.2	90 60	<b>90</b>	< 50 20
NUTRIENTS	• • •	·		•
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL DREANIC (MG C/L) CARBON DIGXIDE (MG CO2/L)	6. 6. 6. 7	5. 6. 4.3	5. 7. 4.1	7. 7. 3.4
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE MITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.13 0.09 0.22	0.06 0.13 0.19	0.07 0.12 0.19	<0.02 <0.01 <0.03
CHITHOPHOSPHATE: DISSOLVED (MG P/L)	<0-01 0-03	<0.01 0.06	<0.01 0.06	<0- /1 0- 01
BIOLOGICAL DATA		•		
BACTERIOLOGICAL DATA		•		•
FECAL COLIFORM (LGS10(/100ML)) FECAL STREPTICECCI (LGG10(/100ML)) FC/FS FATIC	'	0.00 2.68 <0.01		8.00 1.80 9.02

TABLE D-6e

PARAMETER NAME (UNITS)	STATION 13 9/24/79	STATION 13 9/24/79	STATION 14 9/24/79	ST AT ION 15 9/24/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LDC (XFROM P-BK LK UPST) SAMPLE DEPTH (METERS)	30. 1.0	30. 8.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS				•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UNHO/CH 25C) UXIDATION REDUCTION POTENTIAL (MV)	25.0 150. 450	25.0 155. 480	23.0 208.	24.0 153. 430
DISOCLVED DXYGEN, ELECTRODE (MG/L) PH (STO UNITS)	7.1 7.70	7.0 7.60	7.6 7.70	7.3 7.70
LAUGRATORY DATA				
COLOR (PT-CO UNITS) TURBICITY, MACH TURBIDIMETER (FTU) TGTAL FILTERAULE RESIDUE (MG/L)	18. 8.10 90.	6.80 90.	12. 4.40 113.	17. 5.70 94.
TOTAL NONFILTERABLE RESIDUE (MG/L)	13.	15.	8.	10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SG4/L) SULFIDE, TOTAL (MG S/L)	59. 3. < 0.1	59. < 0.1	95. < 1. < 0.1	60. 3. < 0.1
IRCN, DISSOLVED (UG FEZL) IRCN, TOTAL (UG FEZL) MANGANESE, DISSOLVED (UG MNZL)	< 50 880 < 50	< 50 490 < 50	< 50 350 < 50	< 50 680 < 50
MANGARESE. TOTAL (UG MN/L) Zinc. Total (Ug zn/L)	80 40	80 40	< 50 40	60 60
NUTRIENTS	•			
CARDON, DISSULVED GRGANIC (MG C/L) CARDON, TOTAL URGANIC (MG C/L) CARDON DIDXIDE (MG CO2/L)	5. 6. 2.3	4. 5. 2.9	7. 7. 3.8	5. 5. 2.3
NITEGEN, TOTAL AMMONIA (MG N/L) NITEGEN, HITRATE NITEITE (MG N/L) NITEGEN, TOTAL INORGANIC (MG N/L)	0.04 0.45 0.49	0.05 0.45 0.50	0.02 0.48 0.50	0.02 0.58 0.60
ORTHOPHOSPHATE, DISSULVED (MG P/L) PHOSPHORE, TOTAL (MG P/L)	0.01 0.04	0.01 0.05	<0.01 0.02	0• 06 0• 02
BIOLOGICAL DATA	•	•	- •	
BACTERIOLOGICAL DATA		•		
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LUGIO(/100ML)) FC/FS RATIO	0.48 1.51 0.09		1.18 1.41 0.58	0.00 1.18 0.07

TABLE D-6f

PARAMETER NAME (UNITS)	STATION 15 9/24/79	STATION 16 9/24/79	STATION 17 9/24/79	STATION 10 9/25/79
PHYSICAL DATA				
HISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-DK LK UPST) SAMPLE DEPTH (METERS)	50 • 4 • 0	50. 1.0	50. 1.0	50. 1.0
FICLD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24.0 156. 500	24.0 131.	24.0 120.	23.5 122.
DISSOLVED OXYGEN. ELECTRODE (MG/L) PM (STO UNITS)	7.4 7.70	6.8 7.60	6.9 7.35	6 • 6 7 • 30
LADERATORY DATA				-
COLOR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	21. 5.60 94.	24. 5.50 79.	31. 3.90 78.	38. 9.10 72.
TOTAL NUNFILTERABLE RESIDUE (MG/L)	12.	7.	6.	22.
CHENICAL DATA			•	:
MINERALS AND METALS			•	•
ALKALINITY, TOTAL (MG CACES/L) SULFATE, TOTAL (MG SO4/L) SULFICE, TOTAL (MG S/L)	65. 3. < 0.1	45. 4. < 0.1	42. 3. < 0.1	44. < 0.1
IRCH: DISSOLVED (UG FEZL) IRON: TOTAL (UG FEZL) MANGANESE: DISSOLVED (UG MNZL)	< 50 670 < 50	90 730 < 50	180 730 < 50	< 50 1080 < 50
MANGANESE, TOTAL (UG MN/L) Zinc. Total (UG ZN/L)	70 40	50 30	< 50 40	80 30
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG CO2/L)	5. 5. 2.5	5. 5. 2.2	4. 5. 3.7	4. 6. 4.3
HITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L)	0.03 0.57 0.60	0.12 0.65 0.77	0.07 0.61 0.68	0.10 0.23 0.33
ORTHOPHOSPHATE: DISSULVED (MG P/L) PHOSPHOLUS: TOTAL (MG P/L)	0.02 0.05	0.04 0.06	0.03 0.05	0.01 0.05
BITLUGICAL DATA				•
HACTERIGLOGICAL DATA				-
FECAL COLIFOLM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	 	1.00 1.72 0.19	1.52 1.58 0.87	0.85 3.53 <0.01

TABLE D-6g

*	
PARAMETER NAME (UNITS)	STATION 19 9/25/79
PHYSICAL DATA	
MISCELLANEOUS DATA	
X-SECTION LDL (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0
FIELD MEASUREMENTS	
EATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	24 • 0 122 •
DISSOLVED DXYGEN, FLECTRODE (MG/L) PH (STD UNITS)	6.0 7.20
LABORATCE Y DATA	
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERAGLE RESIDUE (MG/L)	35. 10.00 77.
TOTAL NONFILTERABLE RESIDUE (HG/L)	17.
CHEMECAL DATA	
MINERALS AND METALS	
ALKALINITY, TOTAL (MG CACD3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	45. 4. < 0.1
IREN, DISSULVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSULVED (UG MN/L)	< 50 1090 < 50
MANGANESE: TUTAL (UG MN/L) Zinc, Total (UG ZN/L)	90 30
NUTRIENTS	
CARBON, DISSULVED ORGANIC (MG C/L) CARBON, TCTAL ORGANIC (MG C/L) CARBON DICKIDE (MG CG2/L)	5. 6. 5.6
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TUTAL INORGANIC (MG N/L)	0.08 0.28 0.36
OFTHOSPHORDE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0.01 0.05
BEGLEGICAL DATA	
BACTEHIOLOGICAL DATA	
FECAL COLIFORN (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FG/FS RATIO	0.30 3.68 <0.01

TABLE D-7a

++ LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY ++
CURPS OF ENGINEERS (CONTRACT DACHO)-78-C-0101) Phase 11, Cycle 7 (12/3-8/1979)

WATER QUALITY SAMPLING RESULTS

Grab Samples

PARAMETER NAME (UNITS)	STATION	STATION	STATION	STATION
	01	02	03	04
	12/ 5/79	12/ 5/79	12/ 5/79	12/5/79
PHYSICAL DATA	•			•
MISCELLANEOUS DATA				:
X-SECTION LOC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50.	50.	50.	50.
	1.0	1.0	1.0	1.0
FIFLD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CUNDUCTANCE: FLD (UMMU/CM 25C) GXIDATION REDUCTION POTENTIAL (MV)	11.5 70.	12.0 69.	12.0	12.0 74.
DISSOLVED DXYGEN. ELECTRODE (4G/L) PM (STD UNITS)	10.9	10.7	10.6	10.5
	7.20	7.10	7.35	7.30
LABORATORY DATA				
COLOR (PT-CU UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	18.	20.	20.	22.
	7.30	6.80	7. u0	7.70
	51.	57.	55.	62.
TOTAL NONFILTERABLE RESIDUE (MG/L)	13.	11.	12.	13.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACD3/L) CHLURIDE (MG CL/L) SULFATE, TOTAL (MG SU4/L)	16.	15.	16.	17.
	4.	5.	5.	5.
	6.	6.	7.	8.
SULFICE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1	< 0.1	< 0.1	< 0.1
	2.6	3.2	2.9	2.8
	13.6	19.2	20.0	18.9
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L)	< 50	< 50	60	60
	570	610	750	430
	1.2	1.0	1•2	1.3
MANGANESE, DISSULVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	< 50	< 50	< 50	< 50
	< 50	< 50	< 50	60
	2.1	2.4	2.2	2.3
SODILM: TOTAL (MG NAVL)	5.90	4 • 50	4.40	6.70
	20	70	20	< 10
NUTRIENTS	•		) 	
CARBON: DISSCLVED ORGANIC (MG C/L) CARBON: TOTAL GRGANIC (MG C/L) CARBON DICXIDE (MG CO2/L)	6.	< 6.	6.	< 6.
	6.	6.	6.	6.
	2.4	2.8	1.7	2.0
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.03	0.04	0.03	0.03
	0.35	0.34	0.35	0.36
	0.35	0.38	0.38	0.41
NITROGEN, TOTAL KJELDAML (MG N/L)	0.3	0.4	0.3	0.4
NITROGEN, TOTAL ORGANIC (MG N/L)	0.3	0.3	0.3	0.4
NITROGEN, TOTAL (MG N/L)	0.7	0.7	0.7	0.6
ORTHOPHOSPHATE, DISSCLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	<0.01	<0.01	<0.01	<0.01
	0.62	0.02	0.04	0.06
BIOLOGICAL DATA	•		•	_
BACTERIOLOGICAL DATA	•	•	•	
FECAL COLIFGRM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.43	1.46	1.56	1.49

TABLE D-7b

PARAMETER NAME (UNLTS)	STATION 05 12/5/79	STATION 06 12/ 6/79	STATION 07 12/6/79	STATION 08 12/ 6/79
PHYSICAL DATA	l			
MISCELLANEUUS DATA	ļ			
X-SECTION LUC (XFROM R-BK LK UPST) SAMPLE DEPTH (METERS)	50. 1.0	50. 1.0	50. 1.0	50.
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHD/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	12.0 66.	12.0 76.	13.0 74.	12.5 81. 460
DISSOLVED DXYGEN. ELECTRODE (4G/L) PH (5TD UNITS)	10.2 7.25	10.7 7.15	10.2	10.2
LABORATORY DATA				
COLOR (PT-CO UN(TS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	27. 8.80 62.	23. 6.80	26. 6.20 65.	26. 8.50 65.
TOTAL NONFILTERABLE RESIDUE (MG/L)	13.	11.	11.	14.
CHEMICAL DATA				
MINERALS AND METALS		'		
ALKALINITY: TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE: TOTAL (MG SD4/L)	18. 5. 10.	19. 4. 8.	18. 5. 9.	16. 5. 9.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 2.4 19.2	< 0.1 2.9 20.9	< 0.1 5.5 20.7	< 0.1 2.3 20.0
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (NG MG/L)	< 50 61C 1.3	< 50 610 1.4	< 50 710 1.0	360 1.1
MANGANESE DISSOLVED (UG MN/L) MANGANESE TOTAL (UG MN/L) PCTASSIUM TOTAL (MG K/L)	< 50 60 2.2	< 50 < 50 2.1	< 50 < 50 2.1	< 50 < 50 2.1
SODIUM. TOTAL (MG NA/L) ZINC. TOTAL (UG ZN/L)	7.00 10	6.50 20	7.20 < 10	5.80 < 10
NUTRIENTS	į	•		•
CARBON DISSOLVED ORGANIC (NG C/L) CARBON TOTAL URGANIC (NG C/L) CARBON DIUXIDE (NG COZ/L)	6. 7. 2.5	6. 7. 3.2	6. 6. 2.1	6. 7. 1.8
NITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE+NITRITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L)	0.02 0.32 0.34	0.05 0.41 0.46	0.03 0.31 0.34	0.03 0.32 0.35
NITROGEN, TOTAL KJELDAML (MG N/L) NITROGEN, TOTAL URGANIC (MG N/L) NITROGEN, TOTAL (MG N/L)	0.4 0.4 0.8	0.2 0.2 0.6	0.3 0.2 0.6	0.2 0.2 0.5
ORTHOPHOSPHATE, DISSOLVED (NG P/L) PMOSPHORUS, TOTAL (NG P/L)	<0.01 0.02	<0.01	<0.01 0.03	<0.01 0.03
BIULOGICAL DATA	:	•	•	
BACTERIOLOGICAL DATA	:	•		
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.6G	0.C0 2.30 <0.03	1.90 2.41 0.31	1.48 2.32 0.14

TABLE D-7c

PARAMETER NAME (UNITS)	STATION 09	STATION 10 12/6/79	STATION 11 12/ 5/79	STATION 12 12/6/79
PHYSICAL DATA				
MISCELLANEOUS DATA				
X-SECTION LUC (XFROM R-BK LK UPST) Sample Depth (Meters)	50. 1.0	50. 1.0	80. 1.¢	50. 1.0
FIELD MEASUREMENTS				
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE, FLD (UMHU/CM 25C) UXIDATION REDUCTION POTENTIAL (MV)	12.5 79. 410	12.5 78. 490	12.0 66. 53C	11.0 102.
DISSOLVED UXYGEN, ELECTRODE (MG/L) PM (\$10 UN(15)	10.3	10.0 7.00	10.2 7.45	10.2 7.10
LABORATORY DATA	· •	•		
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	30. 9.30 70.	30. 8.60 64.	26. 8.80 64.	12. 1.70 66.
TOTAL NONFILYRRABLE RESIDUE (MG/L)	14.	12.	13.	< 10.
CHEMICAL DATA		•		
MINERALS AND METALS		_		
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SU4/L)	20 . 3 . 9 .	19. 4. 8.	22. 5. 6.	44. 3. 1.
SULFIDE. TOTAL (MG S/L) CALCIUM. TOTAL (MG CA/L) MARDNESS. TOTAL (MG CACO3/L)	< 0.1 2.3 21.9	< 0.1 3.2 21.9	< 0.1 3.6 25.5	< 0.1 18.0 50.9
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MAGNES(UM. TOTAL (MG MG/L)	< 50 880 1.1	< 50 740 1.4	< 50 860 1.2	50 220 0.8
MANGANESE. DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM. TOTAL (MG K/L)	< 50 60 2.3	< 50 70 2.1	< 50 50 1.9	< 50 70 9.6
SODIUM, TOTAL (MG NA/L) Zinc, Total (UG ZN/L)	5.70 40	6.40 20	5.80 20	3.60 20
NUTRIENTS		•		•
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIUXIDE (MG COZ/L)	6. 7. 4.£	7. 7. 4.5	6. 7. 1.6	7. 8.
NITROGEN, TOTAL AMMONIA (MG N/L) NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L)	0.05 0.32 0.37	0.04 0.31 0.35	0.04 0.31 0.35	0.02 0.04 0.06
NITROGEN. TOTAL KJELUAHL (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.3 0.2 0.6	0.3 0.2 0.6	0.4 0.4 0.7	0.3 0.3 0.3
GRTHOPHOSPHATE. DISSCLVED (MG P/L) PHOSPHORUS. TOTAL (MG P/L)	<0.01 0.02	<0.01 0.03	<0.01 0.06	<0.01 0.01
BIOLOGICAL DATA	•	•		•
BACTERIOLUGICAL DATA	•	•	•	:
FECAL COLIFORM (LUGIO(/100ML)) FECAL STREPTUCOCCI (LUGIO(/100ML)) FC/FS RATIO	<0.00 1.81 <0.03	0.95 1.49 0.29	1.41	<0.00 1.20 <0.06

TABLE D-7d

PARAMETER NAME (UNITS)	STATION 13 12/ 6/79	STATION 14 12/ 3/79	STATION 15 12/ 3/79	STATION 10 12/3/79
PHYSICAL DATA			•	•
MISCELLANEOUS DATA				
X-SECTION LOC (XFROM R-BK LK UPST) Sample Depth (Meters)	30. 1.0	50. 1.0	50. 1.0	50. 1.0
FIELD MEASUREMENTS		•		•
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UNHO/CM 25C) OXIDATION REDUCTION POTENTIAL (MV)	12.5 131. 580	11.0 198.	12.5 98. 590	12.0
DISSOLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	9.6 7.30	10.2 7.50	8.6 7.10	6.90
LABORATORY DATA	•	•	•	•
COLOR (PT-CD UNITS) TURBIDITY: MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	20. 4.00 90.	9. 3.30 126.	35. 6.20 82.	55. 6.30 82.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 16.	< 10.	< 10.
CHEMICAL DATA		•	:	:
MINERALS AND METALS		•		•
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TUTAL (MG SD4/L)	6C •	100.	40. 5. 3.	35. 5. 3.
SULFIDE. TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS. TOTAL (MG CACO3/L)	< 0.1 12.7 67.0	< 0.1 35.0 112.0	10.4	< 0.1 7.2 43.6
IRON. DISSOLVED (UG FE/L) IRON. TOTAL (UG FE/L) MAGNESIUM. TOTAL (MG MG/L)	< 50 750 1.1	< 50 250 0.6	320 1290 1.2	500 1220 1.0
MANGANESE: DISSOLVED (UG MN/L) MANGANESE: TOTAL (UG MN/L) POTASSIUM: TOTAL (MG K/L)	< 50 60 1.3	< 50 < 50 1.0	< 50 60 1.6	< 50 < 50 1.6
SODIUM, TOTAL (MG NA/L) ZINC. TOTAL (UG ZN/L)	3.70 30	4.80	4-10	3.30
NUTRIENTS	•		•	:
CARBON. DISSOLVED ORGANIC (4G C/L) CARBON, TOTAL ORGANIC (MG C/L) CARBON DIDXIDE (MG CO2/L)	< 5. 5. 7.0	< 5. 5.	7.7	10.8
: • NITROGEN. TOTAL AMMONIA (4G N/L) • NITROGEN. NITHATE+NITRITE (4G N/L) • NITROGEN. TOTAL INURGANIC (4G N/L)	0.09 0.55 0.64	0.02 0.50 0.52	0.08 0.46 0.54	0.09
NITROGEN, TOTAL KJELDAM. (4G N/L) NITROGEN, TOTAL ORGANIC (4G N/L) NITROGEN, TOTAL (4G N/L)	< 0.1 0.7	0.2 0.1 0.7	0.3 0.2 0.7	0.3 0.2 0.7
ORTHOPHOSPHATE. DISSOLVED (MG P/L) PHOSPHCRUS. TOTAL (MG P/L)	0.03	<0.01 0.01	0.06	0.03
BIOLOGICAL DATA		•	•	:
BACTERIOLOGICAL DATA	•	•	•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.00	1.20	1.00	1.92

TABLE D-7e

PARAMETER NAME (UNITS)	STATION 17 12/ 3/79	STATION 18 12/ 4/79	STATION 19 12/ 4/79
PHYSICAL DATA			
MISCELLANEOUS DATA			:
X-SECTION LCC (XFROM R-BK LK UPST) Sample Depth (Meters)	50. 1.0	50. 1.0	50.
FIELD MEASUREMENTS			
WATER TEMPERATURE (DEG C) SPEC CONDUCTANCE: FLD (UMHO/CM 25C) UXIDATION REDUCTION POTENTIAL (MY)	12.0 96.	11.5 108.	11.5 102.
DISSCLVED DXYGEN. ELECTRODE (MG/L) PH (STD UNITS)	9.3 6.80	9.8 7.00	9.5 7.00
LABORATORY DATA			•
COLOR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL FILTERABLE MESIDUE (MG/L)	50. 5.90 78.	26. 9.50 76.	9.30 71.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	18.	14.
CHEMICAL DATA			
MINERALS AND METALS			
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	35. 5. 2.	37. 4. 5.	35. 4. 5.
SULFIDE. TOTAL (MG S/L) CALCIUM. TOTAL (MG CA/L) HARDNESS. TOTAL (MG CACD3/L)	< 0.1 7.2 41.1	< 0.1 8.7 36.2	< 0.1 7.5 37.2
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L)	500 1290 0.9	80 1130 1.3	90 1070 1.3
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	< 50 < 50 1.9	< 50 60 2.0	< 50 60 1.9
SODIUM. TOTAL (MG NA/L) ZINC. TOTAL (UG ZN/L)	3.20 20	4.70 30	4.30
NUTRIENTS	•	•	:
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL ORGANIC (MG C/L) CARBON DIOXIDE (MG COZ/L)	13.6	5. 5. 9.4	5. 5. 6.8
MITROGEN. TOTAL AMMONIA (MG N/L) NITROGEN. NITRATE:NITRITE (MG N/L) MITROGEN. TOTAL INORGANIC (MG N/L)	0.05 0.44 0.49	0.09 0.39 0.48	0.02 0.37 0.39
N.TROGEN. TOTAL KJELDAML (MG N/L) NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L)	0.2 0.1 0.6	0.3 0.2 0.7	0.3 0.3 0.7
ORTHOPHOSPHATE. DISSOLVED (MG P/L) PHOSPHORUS. TOTAL (MG P/L)	0.03	<0.01 0.04	0.01
BIOLOGICAL DATA	:	•	•
BACTERIOLOGICAL DATA	:	•	•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTUCOCCI (LOGIO(/100ML)) FC/FS RATIO	1.94	1.43	1.10

TABLE D-8
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 1

Parameter Name (Units)	Station A0 2/21/79	Station 80 2/21/79	Station B1 2/22/79	Station B2 2/20/79	Station Fe 2/20/79
Meteorological Data					
Air Temperature (OC) Cloud Cover (Percent) Wind Velocity (MPH) Wind Direction (Deg Fm	20.0 100 0.0	20.0 100 0.0			15.0 100 5.0
True N, CW)					70
Hydrological Data					
Total Depth (Meters) Wave Height (Meters) Curring Speed (fps)	5.0 0.10 3.0	0.0 3.0			0.01
Physical Data					
X-Section Loc (% From R-BK LK Upst)	95	5			
Secchi Disk Transparency (Meters) Depth of 1% Surface Light (Meters)	0.7	0.7			0.6
	1.8	1.5			1.5
Field Measurements					
Sample Depth (Meters) Water Temperature (OC)	1.0 8.0	1.0 8.0	0.3	0.3	1.0 9.0
Spec. Conductance, Fld. (umho/cm 25C) Oxidation Reduction	58	74			79
Potential (mV)	320	170			330
Dissolved Oxygen, Electrode (mg/l)	12.8	12.9			11.2
pH (STD Units)	6.8	7.2			7.4
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	7.6	9.6			4.9
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))			0.0	1.70	
Fecal Streptococci (Log 10 (/100 ml)) FC/FS Ratio			1.20 <0.06	0.30 24.50	

TABLE D-9
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 2

Parameter Name (Units)	Station AO 4/4/79	Station BO 4/4/79	Station B1	Station B2	Station Fe 4/2/79
Meteorological Data					
Air Temperature ( ^O C) Cloud Cover (Percent) Wind Velocity (MPH) Wind Direction (Deg Fm	25.0 100 0.0	22.0 100 0.0			22.0 100 7.0
True N, CW)					160
Hydrological Data					
Total Depth (Meters)	6.0	3.0			2.5
Wave Height (Meters) Current Speed (fps)	0.1 3.5	0.1 2.5			0.02
	3.3	2.0			
Physical Data					
X-Section Loc (% From R-BK LK Upst)	95	5			30
Secchi Disk Transparency (Meters)	0.3	0.6			0.6
Depth of 1% Surface Light (Meters)	0.9	1.5			1.2
Field Measurements					
Sample Depth (Meters)	1.0	1.0			1.0
Water Temperature (°C) Spec. Conductance, Fld.	15.0	15.0			18.0
(µmho/cm 25C)	54	60			78
Oxidation Reduction	200	250			400
Potential (mV) Dissolved Oxygen, Electrode	390	350			400
(mg/1)	9.9	10.3			9.2
pH (STD Units)	7.0	7.1			7.2
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	32.1	16.1			10.4

## Bacteriological Data

Fecal Coliform (Log 10 (/100 ml))
Fecal Streptococci (Log 10 (/100 ml))
FC/FS Ratio

TABLE D-10
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 3

Parameter Name (Units)	Station A0 6/6/79	Station BO 6/6/79	Station B1 6/4/79	Station B2 6/4/79	Station Fe 6/5/79
Meteorological Data					
Air Temperature (°C) Cloud Cover (Percent) Wind Velocity (MPH) Wind Direction (Deg Fm True N, CW)	31.0 100 3.5	30.0 50 0.0			29.0 50 5.0 340
Hydrological Data					
Total Depth (Meters) Have Height (Meters) Current Speed (fps)	4.0 0.1 2.5	3.0 0.05 2.0	1.5	2.0	2.0 0.1 0.0
Physical Data					
X-Section Loc (% From R-BK LK Upst) Secchi Disk Transparency	95	5	10	5	
(Meters) Depth of 1% Surface Light	0.65	0.6			0.6
(Meters)	1.8	1.5			1.5
Field Measurements					
Sample Depth (Meters) Water Temperature (°C) Spec. Conductance, Fld.	1.0 24.0	1.0 24.0	0.3	0.3	1.0 26.0
(umho/cm 25C) Oxidation Reduction	51	153			63.7
Potential (mV) Dissolved Oxygen, Electrode	335	153			445
(mg/1)	8.5	7.3			8.2
pH (STD Units)	6.9	6.8			7.4
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	16.6	21.6		,	20.6
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))			0.70	0.90	
Fecal Streptococci (Log 10 (/100 ml)) FC/FS Ratio			<0.00 >5.0	1.60 0.21	

TABLE D-11
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 4

Parameter Name (Units)	Station A0 7/19/79	Station 80 7/18/79	Station 81 7/16/79	Station B2 7/16/79	Station Fe 7/17/79
Meteorological Data					
Air Temperature ( ^O C) Cloud Cover (Percent) Wind Velocity (MPH)	35.0 30 6.0	28.0 100 0.0			35.0 10 0.0
Wind Direction (Deg Fm True N, CW)	2				
Hydrological Data					
Total Depth (Meters) Wave Height (Meters) Current Speed (fps)	2.0 0.0 1.0	0.0	2.0	3.0	2.0 0.0 0.0
Physical Data	:				
X-Section Loc (% From R-BK LK Upst) Secchi Disk Transparency (Meters)	95	5	90	5	30 0.65
Depth of 1% Surface Light (Meters)	2.4	0.4			1.4
Field Measurements					
Sample Depth (Meters) Water Temperature (°C) Spec. Conductance, Fld.	1.0 29	1.0 28.5	0.3	0.3	1.0 29
(µmho/cm 25C)	60	381			78
Oxidation Reduction Potential (mV) Dissolved Oxygen, Electrode	470	6			
(mg/1)	6.7	5.9			7.6
pH (STD Units)	7.0	7.2			
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	8.3	19.6			9.6
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))			0.78	0.00	
Fecal Streptococci (Log 10 (/100 ml))			0.60	0.70	
FC/FS Ratio			1.5	0.2	

TABLE D-12
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 5

Parameter Name (Units)	Station A0 8/15/79	Station 80 8/15/79	Station B1 8/16/79	Station B2 8/13/79	Station Fe 8/14/79
Meteorological Data					
Air Temperature (°C)	32.0	32.0			31.5
Cloud Cover (Percent) Wind Velocity (MPH) Wind Direction (Deg Fm	70 4.0	50 0.0			50 5.0
True N, CW)	340	~			300
Hydrological Data					
Total Depth (Meters) Wave Height (Meters)	3.0	2.0	2.0	2.0	2.0
Current Speed (fps)	1.0	0.5		•	0.0
Physical Data					
X-Section Loc (% From R-BK	05	-		· <u>_</u>	
LK Upst) Secchi Disk Transparency	95	5	90	5	40
(Meters) Depth of 1% Surface Light	1.2	1.1			0.7
(Meters)	2.8	3.1			1.3
Field Measurements					
Sample Depth (Meters)	1.0	1.0	0.3	0.3	1.0
Water Temperature (°C) Spec. Conductance, Fld.	28	29			28
(umho/cm 25C) Oxidation Reduction	73	75			87
Potential (mV)	477	512			464
Dissolved Oxygen, Electrode (mg/l)	7.8	7.8			5.6
pH (STD Units)	7.09	8.3			7.3
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)					
•	3.1	2.3			7.5
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))			0.0	<0.0	
Fecal Streptococci (Log 10 (/100 ml))					
FC/FS Ratio			0.48 0.33	1.23 <0.06	

TABLE D-13
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 6

Parameter Name (Units)	Station A0 9/25/79	Station 80 9/26/79	Station B1 9/25/79	Station B2 9/24/79	Station <b>Fe</b> 9/25/79
Meteorological Data					
Air Temperature ( ^O C) Cloud Cover (Percent) Wind Velocity (MPH) Wind Direction (Deg Fm	21.5 100 2.5	21.0 100 5.0			21.0 100 10.0
True N, CW)	10	10			40
Hydrological Data					
Total Depth (Meters) Wave Height (Meters) Current Speed (fps)	2.0 0.0 1.0	5.0 0.05 1.0	1.5	2.0	3.0 0.20 0.0
Physical Data					
X-Section Loc (% From R-BK LK Upst)	95	5	95	5	50
Secchi Disk Transparency (Meters)	1.0	1.0			0.5
Depth of 1% Surface Light (Meters)	2.4	2.3			1.2
Field Measurements					
Sample Depth (Meters) Water Temperature (°C)	1.0 23.5	1.0 23.5	0.3	0.3	1.0 24.0
Spec. Conductance, Fld.	23.5	23.3			-
(µmho/cm 25C) Oxidation Reduction	64	72			. 87
Potential (mV)	430	560			600
Dissolved Oxygen, Electrode (mg/l)	8.2	8.1			6.0
pH (SŤD Únits)	7.0	6.95			6.5
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	3.6	4.6			15.6
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))			<0.0	0.30	
<pre>Fecal Streptococci (Log 10</pre>			1.72 <0.02	2.04 0.02	

TABLE D-14
WATER QUALITY SAMPLING RESULTS
SPECIAL STATIONS, PHASE II, CYCLE 7

Parameter Name (Units)	Station A0 12/5/79	Station 80 12/5/79	Station B1	Station B2	Station Fe 12/6/79
Meteorological Data					
Air Temperature (OC) Cloud Cover (Percent) Wind Velocity (MPH)	16.0 20 0.0	11.0 10 4.0			15.0 100 6.0
Wind Direction (Deg Fm True N, CW)		120			300
Hydrological Data					
Total Depth (Meters) Wave Height (Meters) Current Speed (fps)	2.0 0.0 3.0	2.0 0.0 3.0			2.0 0.1 0.0
Physical Data					
X-Section Loc (% From R-BK LK Upst) Secchi Disk Transparency	95	5			50
(Meters) Depth of 1% Surface Light	0.85	0.7			0.7
(Meters)	2.0	1.7			2.0
Field Measurements					
Sample Depth (Meters)	1.0	1.0			1.0
Water Temperature (°C) Spec. Conductance, Fld.	15.0	12.0			12.5
(µmho/cm 25C) Oxidation Reduction	72	101			85
Potential (mV)	497	544			485
Dissolved Oxygen, Electrode (mg/1)	9.7	9.8			10.0
pH (STD Únits)	6.71	6.85			7.13
Laboratory Data					
Turbidity, Hach Turbidimeter (FTU)	.3	7.5			8.5
Bacteriological Data					
Fecal Coliform (Log 10 (/100 ml))					
Fecal Streptococci (Log 10 (/100 ml)) FC/FS Ratio					

TABLE D-15a

40 LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY 44
CORPS OF INGINEERS (CONTRACT DACHOL-78-C-0101) PHASE II, CYCLE 1 (2/19-22/1979)
BIOLOGICAL DATA (COMPOSITE SAMPLES)

PARAMETER NAME (UNITS)	STATION 01 2/21/79	STATION 02 2/21/79	STATION 03 2/21/79	STATION 04 2/21/79
BIOMASS MFASUREMENTS ' EUPHOTIC ZONE	•			
ATP-ADENOSINE TPIPHOSPHATE (NG/L) BIOMASS, PLANKTON (GM/CU M) CHLORCPHYLL-A (UG/L)	80. 3.	80. 3. 13.4	100. 2. 13.4	80. 2. 10.5
CHLORCPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	(0.1	2.9 < 0.1	0.3 0.2	< 0.1

PAPAMETER NAME (UNITS)	STATION 05 2/21/79	STATION 06 2/21/79	STATION 07 2/20/79	STATION 00 00 00 00 00 00 00 00 00 00 00 00 00
BI DMASS MEASUREMENTS	•	,	,	•
EUPHOTIC ZONE				:
ATP-ACENOSINE TRIPHOSPHATE (NG/L) PIDMASS. PLANKTON (GM/CU H) CHLOROPHYLL-A (UG/L)	90. 4. 14.0	60. 3. 4.2	50. < 1. 12.9	80. 3. 15.4
CHLORCPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	1.2	0.8 0.2	< 0.1	0.6 < 0.1

PARAMETER NAME (UNITS)	STATION 09 2/20/79	STATION 10 2/20/79	STATION 11 2/20/79	STATION 12 2/22/79
BIOMASS MCASUREMENTS EUPHOTIC ZONE	•		,	
ATP-ADENDSINE TRIPHOSPHATE (NG/L)	50.	140.	60. 2.	70. < 1.
CHLUROPHYLL-A (UG/L) CHLORCPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	20.8 1.3	20.4 1.5 < 0.1	0.5 0.1	1.0

PARAMETER NAME (UNITS)	STATION 13 2/19/79	STATION 14 2/22/79	STATION 15 2/19/79	STATION 16 2/19/79
BIOMASS MEASUREMENTS FUPHOTIC ZONG	•			
ATP-ADDHOSINE TRIPHOSPHATE (NG/L) BICMASS, PLANKTON (GM/CU M) CHEJEGPHYLL-A (UG/L)	30.	< 20. 1. 2.1	< 30. 1. 2.1	< 50. 3. 1.2
CHLOFOPHYLL~B (UG/L)	0.4 < 0.1	0.4 0.1	1.2 0.2	< 0.1

TABLE D-15b

PARAMETER NAME (UNITS)	STATION 17 2/19/79	STATION 18 2/20//9	STATION 19 2/20/79
SICHASS MEASUREMENTS  EUPHOTIC ZONE  ATP-ADSHOSINE TRIPHOSPHATE (NGZL)  PICHASS, PLANKTON (GMZCU M)  CHUDROPHYLL-A (UGZL)  CHUDROPHYLL-B (UGZL)  CHUDROPHYLL-C (UGZL)	< 50. 2. 1.3 0.2	60 • 3 • 11 • 3 0 • 7 0 • 2	70. 3. 12.0

TABLE D-16a

## ## LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY ## CORPS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II. CYCLE 2 (4/2-4/1979) 910LOGICAL DATA (COMPOSITE SAMPLES)

FAPAMETER NAME (UNITS)	STATION 01 4/4/79	STATION 02 4/4/79	STATION 03 4/4/79	STATION 04 4/4/79
BICMASS MEASUREMENTS	•	•		•
* CUPHOTIC ZONE	:	•	•	•
ATP-ADENOSINE TRIPHOSPHATE (NG/L) BICMASS, PLANKTON (GM/CU M) CHEGROPHYLL-A (UG/L)	100.	80. 8. 10.2	100. 8. 10.6	80.
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	0.3	0.2 < 0.1	0.4 0.2	< 0.1
PARAMETER NAME (UNITS)	STATION 05 4/4/79	STATION . 06 . 4/ 4/79	STATION 07 4/3/79	STATION 08 4/3/79
BIOMASS MLASUREMENTS	:			•
EUPHOTIC ZONE	•			•
ATP-ADENDSINE TRIPHOSPHATE (NG/L) EICHASS, PLANKTON (GM/CU M) CHECREPHYLE-A (UG/L)	70. 6. 9.1	60. 3. 8.2	50. 3. 15.5	140. 3. 16.1
· CHLOROPHYLL-B (UG/L) · CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1	1.4 0.2	1.1 0.2
PARAMETER NAME (UNITS)	STATION 09 4/ 3/79	STATION 10 4/2/79	STATION 11 4/3/79	STATION 13 4/2/79
BIOMASS MEASUREMENTS	•			l (
SUPHOTIC ZONE				
ATP-ADENOSINE TRIPHOSPHATE (NG/L) EIDMASS. PLANKTON (GM/CU M) CHLDROPHYLL-A (UG/L)	90• 3• 26• 7	120. 4. 23.7	150. 3. 26.6	80. 3. 14.9
CHLORCPHYLL-8 (UG/L) CHLORDPHYLL-C (UG/L)	2•2 0•4	2.1 0.3	1.1 0.7	1.1 0.3
PARAMETER NAME (UNITS)	STATION 14 4/ 2/79	STATION 15 4/ 2/79	STATION 16 4/ 2/79	STATION 17 4/ 2/79
DIOMASS MEASUREMENTS	, ,	•		
CUPHOTIC ZONS				
ATP-ALTHOSING TRIPHOSPHATE (NG/L) DIJMASS, PLANKTON (GM/CU M) CHLOFOPHYLL-A (UG/L)	30. 2. 2.5	50. 3. 10.9	20. 1. 1.6	< 20. 2. 2.4
CHLORCPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	< 0.4	1.0	< 0.1 < 0.1	< 0.1

TABLE D-16b

PARAMETEP NAME (UNITS)	STATION 13 4/3/79	STATION 19 4/ 3/79
BIOMASS MEASURFMENTS  EUPHOTIC ZONE  ATP-ACENOSINE TPIPHOSPHATE (NG/L) BIOMASS. PLANKTON (GM/CU M) CHLOROPHYLL~A (UG/L)  CHLOROPHYLL~B (UG/L) CHLOROPHYLL~B (UG/L)	120. 2. 14.6	110. 3. 13.9

TABLE D-17a

** LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 3 (6/4-6/1977)
BIOLOGICAL DATA (COMPOSITE SAMPLES)

PARAMETER NAME (UNITS)	STATION 01 6/6/6/79	STATION 02 6/6/79	STATION 03 6/ 6/79	STATION 04 6/ 6/ 6/79
BITHASS MEASUREMENTS				
EUPHOTIC ZONE				
ATP-ADENOSINE TRIPHOSPHATE (NG/L) DICMASS. PLANKTON (GM/CU M) CHEDROPHYLL-A (UG/L)	170. < 1. 2.8	90. 4. 2.4	70. 3. 3.3	110 · 2 · 3 · 3
CHLOROPHYLL-8 (US/L) CHLOROPHYLL-C (UG/L)	0.4 < 0.1	0•5 0•2	< 0.1 < 0.1	< 0.1 < 0.1
PARAMETER NAME (UNITS)	STATION 05 6/6/79	STATION 06 6/6/79	STATION 07 6/ 5/79	STATION OR 6/ 5/79
BIOMASS MENSUREMENTS		•	•	•
EUPHOTIC ZONE	•	•		
ATP-ADENDSINE TRIPHOSPHATE (NG/L) AICHASS, PLANKTON (GY/CU N) CHEDROPHYEL-A (UG/L)	30. 2. 2.9	50 • 1 • 3 • 2	40. < 1. 5.8	70. 1. 5.1
CHLOROPHYLL-R (UG/L)	< 0.1	0.2	< 0.7	< 0.1
PARAMEJEP NAME (UNITS)	STATION 9 9 6/ 5/79	STATION 10 6/5/79	STATION 11 11 11 11 11 11 11 11 11 11 11 11 11	STATION 12 5/ 6/79
RICHASS MCASUREMENTS	•	•		•
EUPHOTIC ZONE	:	•	•	•
ATP-ADENDSING TRIPHOSPHATE (NG/L) BICHASS, PLANKTON (GM/CU M) CHLUROPHYLL-A (UG/L)	110. 5. 18.1	90 • 5 • 13 • 7	100. 2. 9.5	40. 1.
CHLOROPHYLL-3 (UG/L) CHLOPOPHYLL-C (UG/L)	1.3 2.6	0.9 0.5	0.4	3.2 < 3.1
PARAMETER NAME (UNITS)	STATION 13 6/4/79	STATION 14 6/4/79	STATION 15 6/4/79	STATION 16 6/4/79
DICHASS MEASUREMENTS	•	•	•	
EUPHOTIC ZONE	•	•	•	•
ATP-ADENDSINE TRIPHOSPHATE (NG/L) HIDMASS, PLANKTON (GM/CU M) CHLOMOPHYLL-A (US/L)	140.	90 • 2 • 5 • 5	100. 1. 14.9	< 30 · 1 · 1 · 9
CH_0+09HYLL=3 (UG/L) CH_0+0PHYLL=C (UG/L)	1.3	0.7	1.5	0.4

TABLE D-17b

PARAMETER NAME (UNITS)	STATION 17 6/4/79	STATION 18 6/ 5/79	STATION 19 6/ 5/79
BIOMASS MEASUREMENTS	•	•	,
EUPHOTIC ZONC		•	:
ATP-ADENOSINE TRIDHOSPHATE (NG/L) DICMASS: PLANKTON (GM/CU M) CHUDDOPHYLL-A (UG/L)	< 30. 1.	90. 2. 9.1	730. < 1. 8.3
CHEOROPHYLL-G (UG/L) CHEOROPHYLL-C (UG/L)	0.2	0.3 0.3	< 0.1

TABLE D-18a

## ## LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY ** CUEPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II. CYCLE 4 (7/16-19/1979) BIOLOGICAL DATA (COMPOSITE SAMPLES)

PARAMETER NAME (UNITS)	STATION	STATION	STATION	STATION
	01	C2	03	04
	7/19/79	7/19/79	7/18/79	7/18/79
DICHASS MEASUREMENTS EUPHOTIC ZONE	•			
AIP-ADENOSINE TRIPHUSPHATE (NG/L) GICMASS, PLANKTON (GM/CU M) CHEGROPHYLL-A (UG/L)	120.	90.	140.	70.
	7.	7.	8.	20.
	14.1	12.8	13.9	12.7
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	0.6	< 0.5 < 0.3	< 0.1	0.9 0.e

PARAMETER NAME (UNITS)	STATION 05 7/18/79	STATION 06 7/18/79	STATION 07 7/18/79	STATION 08 7/17/79
BICMASS MEASUREMENTS				
* EUPHOTIC ZONE * ATP-ÁDENDSINE TRIPHOSPHATE (NGZL) * DIGNASS, PLANKTON (GMZCU M) * CHLOROPHYLL-A (UGZL)	<100. 26. 14.4	150. 6. 13.7	120. 7. 11.3	< 60. B. 12.5
CHLORCPHYLL-B (UG/L) CHLORCPHYLL-C (UG/L)	0.7	< 0.1	0 • 7 0 • 4	< 3.1 < 3.1

PARAMETER NAME (UNITS)	STATION 09 7/17/79	STATION 10 7/17/79	STATION 11 7/17/79	STATION 12 7/18/79
SIGNASS MEASUREMENTS  EUPHOTIC ZONE  ATP-ACEMUSINE TRIFHOSPHATE (NGZL) RICHASS, PLANKTON (GMZCU M) CHURCHYLL-A (UGZL)  CHURCHYLL-A (UGZL)  CHURCPHYLL-C (UGZL)	70. 7.0 12.0 1.5	40. 8. 14.6 0.9 < 0.1	7C. 7. 13-9 6.8 < 0.4	< 0.1 < 0.1 < 0.1

PARAMETER NAME (UNITS)	STATION 13 7/16/79	. 14	STATION 15 7/16/79	STATION 16 7/16/79
HICHASS MEASUREMENTS FURHUTIC ZONG	•			
* ATT-ADENOSINE TRIPHOSPHATE (NG/L) ** BICKASS** PLANKTON (GM/CU H) ** CHLOGCPHYLL-A (UG/L)	110. 3. 17.4	40. < 1. 6.7	140. 2. 20.4	30. < 1. 4.9
CHLORCPHYLL-O (UG/L) CHLORCPHYLL-C (UG/L)	1:4	0.4 < 0.1	2.0 1.9	< 0.1

TABLE D-18b

PARA-METER NAME (UNITS)	STATION 17 7/16/79	STATION 18 7/17/79	STATION 19 7/17/79
BIOMASS MEASUREMENTS	1	· · ·	•
EUPHOTIC ZONE	•		•
ATP-ADENDSINE TRIPHOSPHATE (NG/L) BICMASS: PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L)	< 50. 9. 1.6	140. 9. 10.4	80. 6. 6.2
CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	< 0.5	< 0.1	0.5 < 0.2

TABLE D-19a

CORPS OF ENGINEERS (CONTRACT DACMO1-78-C-0101) PHASE 11. CYCLE 5 (8/13-16/1979)
BIOLOGICAL DATA (COMPOSITE SAMPLES)

PARAMETER NAME (UNITS)	STATION 01 8/15/79	STATION 02 8/15/79	STATION 03 8/15/79	STATION 04 8/15/79
BICHASS MEASUREMENTS EUPHOTIC ZONE				
ATP-ADENOSIME TRIPHOSPHATE (NG/L) BICMASS. PLANKTON (GM/CU M) CHLORCPHYLL-A (UG/L)	30. 2. 9.9	50. 1. 11.0	40. < 1. 10.0	80. 2. 11.8
CHLOROPHYLL-B (UG/L) CHLORGPHYLL-C (UG/L)	1.0	< 0.1 < 0.1	< 0.1	1.6 0.4

PARAMETER HAME (UNITS)	51ATION 05 05 0715/79	STATION 06 8/15/79	STATION 07 8/14/79	STATION OR 8/14/79
BICMASS HEASUREMENTS  ELPHOTIC ZGNE	•			
* ATP-ACENDSINE TRIPHOSPHATE (NG/L) * DICMASS, PLANKTON (GM/CU M) * CHLORCPHYLL-A (UG/L)	80 _k 3	40. 1.	110. 5. 8.1	120. 4. 9.9
CHLOROPHYLL-8 (UG/L) CHLOROPHYLL-C (UG/L)	0.5	0.2 < 0.1	0.5	0.2

PARAMETER NAME (UNITS)	STATICN 09 8/14/79	STATION 10 8/14/79	STATION 11 8/14/79	STATION 12 8/16/79
BICHASS TEASUREMENTS	•		•	
ELPHOTIC ZONE	•	•	•	•
ATP-ACENDSINE TRIPHOSPHATE (NG/L) DICMASS. PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L)	100. 5. 9.6	50. 5. 8.0	60. 4. 7.6	30. < 1. 0.8
CHLORCPHYLL-B (UG/L) CHLCRCPHYLL-C (UG/L)	1.6	< 0.1	0.9 < 0.1	< 0.1 < 0.1

PARAHETER NAME (UNITS)	STATIGN 13 8/13/79	STATION 14 8/16/79	STATION 15 8/13/79	ST AT 10N 16 16 3/13/79
BICMASS MEASUREMENTS ELPHQTIC ZONS	•			
ATP-ADENDSINE TRIPHDSPHATE (NG/L) DICMASS, PLANKTON (GM/CU H) CHLORGPHYLL-A (UG/L)	110. 6. 12.9	30. 2. 14.0	410. 4. 14.4	40. 3.1
CHLGRCPHYLL-B (UG/L) CHLGRCPHYLL-C (UG/L)	1.3	1.6 < 0.1	1.5 0.1	1.3 0.4

TABLE D-19b

PARAMETER NAME (UNITS)	17	STATION 18 8/14/79	STATION 19 8/14/79
DIGMASS MEASUREMENTS  EUPHOTIC ZONE  ATP-ACENOSINE TRIPHOSPHATE (NG/L) BIOMASS, PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L) CHLOROPHYLL-D (UG/L) CHLOROPHYLL-C (UG/L)	30. 3. 2.4 0.7 < 0.2	120. 6.6 0.6 0.3	60. 4. 4.8 1.0 < 0.1

++ LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY ++
CORPS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II, CYCLE 6 (9/24-26/1979)
BIOLOGICAL DATA (COMPOSITE SAMPLES)

TABLE D-20a

PARAMETER NAME (UNITS)	STATION 01 9/26/79	STATION 02 9/26/79	STATION 03 9/26/79	STATION 04 9/26/79
BIOMASS MEASUREMENTS	•			
ATP-ADENCSINE TRIPHOSPHATE (NG/L)  DIOMASS, PLANKTON (ML/L)  CILORUPHYLI-A (UG/L)  CILOROPHYLI-B (UG/L)	100 <1.00 17.9 < 0.1	3.60 17.0 < 0.1	88 <1.00 17.5 < 0.1	168 4.70 16.2 < 0.1
CHLOHOPHYLL-C (UG/L)	< 0.1			
PARAMETER NAME (UNITS)	STATION 05 9/26/79	STATION 06 9/26/79	STATION 07 9/25/79	STATION 08 9/25/79
DIOMASS HEASUREMENTS				
ELPHOTIC ZONE  ATP-ADENOSINE TRIPHOSPHATE (NG/L)  BIOMASS, PLANKTON (ML/L)  CHLOROPHYLL-A (UG/L)  CHLORCPHYLL-B (UG/L)	111 2.00 16.5 < 0.1	37 2.10 11.1 0.1	174 2.70 17.3 < 0.1	61 4.20 18.5 0.6
CHLORCPHYLL-C (UG/L)	< 0 - 1	< 0.1	< 0.1	0.1
PARALETER NAME (UNITS)	STATION 09 9/25/79	STATION 10 9/25/79	STATION 11 9/25/79	STATION 12 9/24/79
BIOMASS MEASUREMENTS				
EUPHOTIC ZONE ATP-ADENOSINE TRIPHOSPHATE (NG/L) BICMASS. PLANKTON (ML/L) CHEGROPHYLL-A (UG/L) CHEGROPHYLL-B (UG/L)	3.20 13.5 0.1	4.70 12.6 0.1	4.10 15.7 < 0.1	374 <1.00 1.5 0.8
CHLOROPHYLL-C (UG/L)	< 0.1	< 0.1	< 0.1	< 0.1
PARAMETER NAME (UNITS)	STATION 13 9/24/79	STATION 14 9/24/79	STATION 15 9/24/79	ST AT ION 16 9/24/79
BIOMASS MEASUREMENTS  EUPHUTIC ZUNE  ATP-ADENOSINE TRIPHOSPHATE (NG/L)  BIOMASS, PLANKTON (ML/L)  CHLORUPHYLL-A (UG/L)  CHLOROPHYLL-B (UG/L)  CHLOROPHYLL-C (UG/L)	2.80 10.5 1.0	3.50 5.5 0.7 0.5	1.90 10.3 1.1	< 32 <1.00 3.4 0.5 < 0.1

TABLE D-20b

PARAMETER NAME (UNITS)	STATION 17 9/24/79	STATION 18 9/25/79	STATION 19 9/25/79
BIOMASS MEASUREMENTS  EUPHOTIC ZONE  ATP-ADEMOSINE TRIPHOSPHATE (NG/L)  DICMASS, PLANKTON (ML/L)  CHLOROPHYLL-A (UG/L)  CHLOROPHYLL-B (UG/L)	< 26 <1.00 2.1	105 2.2c 11.6 2.5	<1.90 6.8 < 0.1
CHLOROPHYLL-C (UG/L)	< 0.2	< 0.1	< 0.1

TABLE D-21a

### ** LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY ** CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II, CYCLE 7 (12/3-6/1979) BIOLOGICAL DATA (COMPOSITE SAMPLES)

PARAMETER NAME (UNITS)	STATION 01 12/5/79	STATION 02 12/5/79	STATION 03 12/ 5/79	STATION 04 12/ 5/79
1 3 IOMASS MEASUREMENTS	, ,			
EUPHOTIC ZONE				•
ATP-ADENOSINE TRIPHOSPHATE (NG/L) HICHASS, PLANKTON (GY/CÚ, M) CHLOROPHYLL-A (UG/L)	 4. 12.7	5. 12.0	5. 12.6	5. 13.7
CHLOROPHYLL-8 (UG/L) CHLOROPHYLL-C (UG/L)	2.5 0.7	0.8 0.7	2.0 < 0.1	4 • 1 3 • 5
PARAMETER NAME (UNITS)	STATION 05 12/5/79	STATION 06 12/6/79	STATION 07 12/ 6/79	STATION 08 12/ 6/79
PIOMASS MENSUREMENTS	•		•	•
EUPHOTIC ZONE	•			
ATO-ADENOSINE TRIPHOSPHATE (NG/L) BICMASS, PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L)	120.	160 • 5 • 13 • 2	160. 6. 14.7	120. 14.5
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-C (UG/L)	0.9 0.3	< 0.1 < 0.1	2.3 < 0.1	2.1 < 3.1
PARAMETER NAME (UNITS)	STATION 09 12/6/79	STATION 10 12/6/79	STATION 11 12/ 5/79	STATION 12 12/6/79
DIOMASS MEASUREMENTS EUPHOTIC ZONS		•	•	• • • •
ATC-ADENOSINE TRIPHOSPHATE (NG/L) BIOMASS, PLANKTON (GM/CU M) CHLOROPHYLL-A (UG/L)	200 · 7 · 11 · 8	100. 6.	 . 5. ! 17.3	40.
CHLOPOPHYLL-9 (US/L) CHLOPOPHYLL-C (US/L)	2.3	0.5	2.1	0.6
PARAMETER NIME (UNITS)	STATION 13 12/ 6/79	STATION 14 12/ 3/79	STATION 15 12/3/79	STATION 16 12/ 3/79
BIOMASS MEASUREMENTS	•		•	•
EUPHOTIC ZONE	:			•
ATP-ADENDSINE TRIPHOSPHATE (NGZL) HIGHASS, PLANKTON (GMZCO M) CHLOPOPHYLL-A (USZL)	60.	4.	 4. 2.8	4.
CHLOROPHYLL-9 (UG/L)	0.6	< 0.1	< 3.1	< 3.1

TABLE D-21b

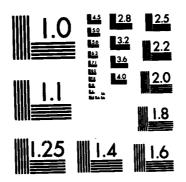
PARAMETER NAME (UNITS)	STATION 17 12/ 3/79	STATION 19 12/ 4/79	STATION 19 12/ 4/79
BIOMASS MEASUREMENTS	•		
EUPHOTIC ZONE	•		
* ATP-ADENDSINE TRIPHOSPHATE (NG/L) * BIGMASS, PLANKTON (GM/CU M) * CHLOROPHYLL-A (UG/L)	3. 1.6	 5. 0.7	5. 8.6
CHLOROPHYLL-3 (UG/L) CHLOROPHYLL-C (UG/L)	< 0.1	0.2 < 0.1	< 0.9

# APPENDIX E LABORATORY QUALITY CONTROL DATA

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** LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY **
CURPS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE II, CYCLE 1 (2/19-22/1979)
DATA FROM DUPLICATE ANALYSES

TABLE E-1a

PARA 46TER NAME (UNITS)	STATION 5-A 2/21/79	STATION 5-0 2/21/79	STATION 14-A 2/22/79	STATION 14-0 2/22/79
PHYSICAL DATA				
LABORATORY DATA				į
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERAULE RESIDUE (MG/L)	95. 7.60 67.	85. 8.60 73.	35. 2.60 115.	35. 2.10 117.
TOTAL NONFILTERABLE RESIDUE (MG/L)	16.	18.	3.	7.
CHEMICAL DATA				ì
MINERALS AND METALS		;	,	
ALKALINITY, TOTAL (MG CACD3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SD4/L)	18. 5. 12.	20 <b>.</b>	85. 5. < 1.	71. 5.
CALCIUM, TOTAL (MG CA/L) IRDN, DISSOLVED (UG FE/L) IRDN, TOTAL (UG FE/L)	5.0 130 1320	5.3 150 1290	21.5 80 440	20.0 80 380
MAGNESIUM, TOTAL (MG MG/L) MANGANESE, DISSOLVED (UG MM/L) MANGANESE, TOTAL (UG MM/L)	< 50 70	1.4 < 50 70	0.9 < 50 < 50	0.7 < 50 50
POTASSIUM, TOTAL (MG K/L) SODIUM, TOTAL (MG NA/L) ZINC, TOTAL (UG ZN/L)	2.6 8.30 30	2.5 9.20 30	0.6 3.70 20	0.6 3.00 10
NUTRIENTS				
CARBON. DISSOLVED ORGANIC (MG C/L) CARBON. TOTAL DRGANIC (MG C/L) NITHOGEN. TOTAL AMMONIA (MG N/L)	7. 8. 0.02	7. 8. 0.03	5. 5. 0.02	0.02 6.
NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL INORGANIC (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L)	0.49 0.60 0.6	0.46 0.62 0.7	0.37 0.30 0.3	0.38 0.30 0.3
NITROGEN, TOTAL ORGANIC (MG N/L) NITRUGEN, TOTAL (MG N/L) DRITRUGEN, TOTAL (MG N/L) DRITRUGEN, TOTAL (MG N/L)	0.5 1.1 0.01	0.5 1.1 0.02	0.4 0.7 <0.01	0.4 0.7 <0.01
PHOSPHORUS. TOTAL (MG P/L)	0.07	0.05	0.02	0.02
BIOLOGICAL DATA				
BACTER IOLOGICAL DATA		•		
FECAL COLFURY (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/F5 RATIO	2.53 2.72 6.64	2. 43 2. 83 0. 40	1:72 1:06	1:73 1:56 1:42
BIO4ASS MEASUREMENTS	•			
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	14.6 8.6 < 0.1	13.3 1.8 0.2	2.0 0.3 0.1	2.1 0.5 0.1

TABLE E-1b

PARAMETER NAME (UNITS)	STATION 17-A 2/19/79	STATION 17-8 2/19/79	STATION 19-A 2/20/79	STATION 19-8 2/20/79
PHYSICAL DATA	,	: .		
LABORATORY DATA				
CULDA (PT-CH UNITS) TURDIDITY, HACH TURBIDINETER (FTU) TOTAL FILTERAHLE RESIDUE (MG/L)	75. 7.10 78.	80• 7•60 89•	70. 9.10 71.	65. 11.00 69.
TOTAL NONFILTERABLE RESIDUE (MG/L)	9.	9.	16.	15.
CHENICAL DATA			,	
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	37. 5.	37. 5.	26 . 5 . 6 .	24. 4. 6.
CALCIUM, TOTAL (NG CAZL) IRON, DISSOLVED (UG FEZL) IRON, TOTAL (UG FEZL)	10.5 250 1290	11.1 250 1300	6.5 240 1140	6.2 240 1140
4AGNISIU4. TOTAL (MG MG/L) MANGANESE. DISSOLVED (UG MN/L) AANGANESE. TOTAL (UG MN/L)	1.0 < 50 < 50	1.1 < 50 < 50	1.4 < 50 70	< 53 60
POTASSIUM, TOTAL (NG K/L) SUDIUM, TOTAL (NG NA/L) ZING, TOTAL (UG ZN/L)	2.10 20	1.2 2.10 20	1.8 5.40 20	1.8 5.30 30
NUTRIENTS			•	
CARBON, DISSULVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROSEN, TOTAL AMMONIA (MG N/L)	0.02	6. 6. 0.02	5. 5. <0.02	6. 0.02
NITRUGËN, NITRATF+NITRITE (MG N/L) NITRUGËN, TOTAL INDRGANIC (MG N/L) NITRUGËN, TOTAL KJELDAHL (MG N/L)	0.45 0.44 0.5	0.49 0.43 0.5	0.41 <0.35 0.4	0.39 0.33 0.4
NITROSEN. TOTAL ORGANIC (MG N/L) NITROJEN. TOTAL (MG N/L) ORTHOPHOSPHATE. DISSOLVED (MG P/L)	0.5 0.9 0.05	0.5 0.9 0.17	< 0.4 0.5 0.01	0.4 0.7 0.01
PHOSPHORUS. TOTAL (MG P/L)	0.06	0.06	0.05	0.05
SIGLOGICAL DATA	•	'		
BACTED IOLUGICAL DATA		•	•	
FECAL COLFORM (LDG10(/100ML)) FECAL \$1REPTOCOCCI (LOG10(/100ML)) FC/F3 RATIO	3.14 12:90	3.16 1.99 14.59	1.05 0.60 3.00	
BIOMASS MEASUREMENTS			•	
CHEURUUHYLL-A (UG/L) CHEUROPHYLL-B (UG/L) CHEURUPHYLL-C (UG/L)	0.6 0.3 < 0.1	1.9 < 0.1 < 0.1	12.3 1.7 < 0.1	10.8 1.7 0.1

** LAKE SENINGLE DATER QUALITY MANAGEMENT STUCY **
CORPS OF ENGINEERS (CONTRACT GACWOI-78-C-):01) PHASE II, CYCLE 2 (4/2-4/1979)
DATA FROW DUPLICATE ANALYSES

TABLE E-2a

PARAMETER NAME (UNITS)	STATION 6-A 4/ 4/79	STATION 6-8 4/ 4/79	STATION 11-A 4/ 3/79	STATION 11-8 4/3/79
PHYSICAL DATA	•		•	<del></del>
LAGURATORY DATA				•
CCLCF (PT-CO UNITS) TURDICITY, HACH TURDIDIMETER (FTU) TCTAL FILTERAGLE RESIDUE (NG/L)	55. 15.00 55.	55. 15.00 52.	41. 8.40 65.	39. 8.00 55.
TCTAL NOWFILTERABLE RESIDUE (MG/L)	14.	15.	11.	13.
CHEMICAL DATA				
PINERALS AND METALS	•			
ALKALINITY. TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SCA/L) IRON. DISSULVED (UG FE/L)	15. 6. 160	15. 6. 160	29. 5. 200	29. 5. 160
IFCH. TUTAL (UG FEZL) MANGANESE, DISSCLVED (UG MNZL) MANGANESE, TOTAL (UG MNZL)	1210 < 50 < 50	1220 < 50 < 50	760 < 50 < 50	750 < 50 < 50
ZINC. TOTAL (UG ZNAL)	30	49	10	30
NLTRIENTS				
CARDON: DISSOLVED ORGANIC (MG C/L) CARDON: TOTAL ORGANIC (MG C/L) NITROGEN: TOTAL AMMONIA (MG N/L)	6. 6. 0. 33	6. 6. 0.03	< 5. 5. <0.02	5. 6. 40.02
NITECGEN, NITERATE ON ITELE (NG N/L) NITECGEN, TOTAL INDREMNIC (NG N/L) OFFICE HOSPIATE, DISSOLVED (NG P/L)	0.32 0.35 0.01	0.34 0.37 0.01	0.26 <0.25 <0.01	0.24 <0.26 <0.01
PHOSPHORUS. TOTAL (MG P/L)	0.04	0.05	0.04	0.04
BIGLEGICAL DATA	:			
BICMASS MEASUREMENTS	•	•		
CHLDROPHYLL-A (UG/L) CHLDROPHYLL-D (UG/L) CHLDROPHYLL-C (UG/L)	8.3 1.3 < 0.1	8.0 1.4 < C.1	26.1 1.1 0.6	27.1 1.0 0.7

TABLE E-2b

PARAMETER NAME (UNITS)	ST/.TION 17-A 4/.2/79	17-8
PHYSICAL DATA		
LABORATORY DATA		
COLER (PT-CO UNITS) TURBICITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	44. 5.40 78.	42. 6.00 84.
TOTAL NONFILTERABLE RESIDUE (MG/L)	3.	•
CHEMICAL DATA		
PINEFALS AND METALS		
ALKALINITY, TOTAL (PG CACO3/L) SULFATE, TOTAL (NG SC4/L) IRCA, DISSOLVED (UG FE/L)	43. 2. 200	44. 2. 210
IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L)	830 < 50 < 50	830 < 50 < 50
ZINC. TOTAL (UG ZN/L)	20	20
KUTRIENTS	•	
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG M/L)	4. 5. <0.02	3. 4. 0.02
NITROGEN, NITRATE+NITRITE (NG N/L) NITROGEN, TOTAL INDRGANIC (NG N/L) CFTHCFHOSPHATE, DISSOLVED (NG P/L)	0.50 <0.52 0.04	4.50 0.52 0.03
PHOSPHORUS. TOTAL (NC P/L)	0.04	0-04
DIDLUGICAL DATA		
BICHASS MEASUREMENTS	•	•
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	2.4 0.4 < 0.1	2.4 0.2 < 0.1

** LAKT SIMINGLE BATER QUALITY MANAGEMENT STUDY **
COR-S OF ENGINEERS (CONTHACT DACHOL-78-C-0101) PHASE II. CYCLE 3 (6/4-6/1979)

DATA FROM DUPLICATE ANALYSES

PARAMETER NAME (UNITS)	STATION 6-A 6/6/79	STATION 6-B 6/6/79	STATION 17-A 6/ 4/79	STATION 17-8 6/4/79
PHYSICAL DATA				
LABORATORY DATA				
CULOR (PT-CI) UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TUTAL FILTERAGLE RESIDUE (MG/L)	60. 15.00 48.	60. 15.00 45.	48. 15.00 69.	47. 16.00 74.
TOTAL NONFILTERABLE RESIDUE (MG/L)	8.	5.	9.	7.
CHEMICAL DATA				
MINERALS AND METALS				·
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SO4/L) SULFIDE, TOTAL (MG S/L)	16. 5. < 0.1	15. < 0.1	45. < 0.1	48. 2. < 0.1
IRON, TOTAL (UG FE/L)  ANSANESE, TOTAL (UG NN/L)  ZINC, TOTAL (UG N/L)	1100 60 < 10	1100 60 10	(1500 (50 40	< 50 40
NUTRIENTS				
CARBON, DISSILVED ORGANIC (MG C/L) CANSON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	6. 7. 0.06	6. 7. 0.06	2. 5. 0.07	< 3. 3. 0.07
· NITROSEY, NITRATE+NITRITE (MG N/L) · ORTHO⊃HOSEMATE, DISSOLVED (MG P/L) · PHOSPHERUS, TOTAL (MG P/L)	0.23 0.02 0.03	0.23 0.02 0.03	0.66 0.06 0.07	0.70 0.06 0.07
910LOSICAL DATA	•	<u>;</u>		
HACTERIOLOGICAL DATA				
FECAL CULFORM (LOGID(/100ML)) FECAL STREPTOCOCCI (LOGID(/100ML)) FC/FS RATIO	1.43 1.79 0.44	1.32 1.72 0.40	2.63 1.00 43.00	2.68 1.26 <b>26.</b> 70
ALCHASS MEASUREMENTS				
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-3 (UG/L) CHLOROPHYLL-C (UG/L)	3.3 0.2 0.1	3.0 0.2 < 0.1	1.8 0.4 0.3	1.2 < 0.1 < 0.1

TABLE E-3b

PARAMETER MAME (UNITS)	STATION 19-A 6/ 5/79	STATION 19-8 6/5/79
PHYSICAL DATA		
LABORATORY DATA		
COLOR (PT-CO UNITS)  TURBIDITY. HACH TURBIDINETER (FTU)  TOTAL FILTERARLE RESIDUE (MG/L)	15.00 56.	15.00 56.
TOTAL NONFILTERABLE RESIDUE (MG/L)	10.	11.
CHEMICAL DATA		
MINERALS AND METALS		
ALKALINITY TOTAL (MG CACO3/L) SULFATE TUTAL (MG SD4/L) SULFIDE TOTAL (MG S/L)	33. < 0.1	33. 4. < 0.1
IRON, TOTAL (UG FE/L) INCAMESE, TOTAL (UG MN/L) ZINC, TOTAL (UG ZN/L)	960 60 < 10	1000 60 < 10
NUTRIENTS		. 1
CARBON: DISSULVED ORGANIC (MG C/L) CARBON: TOTAL URGANIC (MG C/L) NITROGEN: TOTAL AMMONIA (MG N/L)	< 6. 6. 0.03	< 6. 6. 0.04
NITROSEN. NITRATE.NITRITE (MG N/L) PROSPHORUS. TOTAL (MG P/L)	0.23 <0.01 0.03	0.22 <0.01 0.03
BICLOGICAL DATA		
BACTERIOLOGICAL DATA		
FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/F3 RATIO	0.48 3.92 <0.01	0.30 4.02 <0.01
DIOMASS MEASUREMENTS		
CHLOROPHYLL-# (UG/L) CHLOROPHYLL-9 (UG/L) CHLOROPHYLL-C (UG/L)	8.2 < 0.1 < 0.1	8.4 0.1 < 0.1

ON LAKE SEMINGLE MATER QUALITY MANAGEMENT STUDY 4+
CORPS OF EMDINEERS (CONTRACT DACUO1-78-C-0101) PHASE II. CYCLE 4 (7/16-19/1979)

DATA FROM DUPLICATE AMALYSES

TABLE E-4a

PARAMETER NAME (UNITS)	STATION 2-A 7/19/79	STATION 2-8 7/19/79	8TATION 12-A 7/18/79	STATION 12-8 7/18/79		
PHYSICAL DATA	•	<del>,</del>	<del>.</del>	·		
LABORATORY DATA	;	•	•	•		
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MO/L)	38. 8.40 63.	39. 8. 60 57.	1.40 71.	17. 1.80 7i.		
TOTAL NONFILTERABLE RESIDUE (HG/L) CHENICAL DATA	11.	11.	3.	2.		
HINERALS AND METALS			<i>:</i>	•		
ALKALIMITY, TOTAL (MO CACO3/L) SULFATE, TOTAL (MO SO4/L) SULFIDE, TOTAL (MO S/L)	16. < 0. 1	17. 5. < 0. 1	33. < 0. i	34. < 0.1		
IRON. DISSOLVED (UC FE/L) IRON. TOTAL (UC FE/L) MANSAMESE: DISSOLVED (UC PM/L)	60 810 < 50	60 640 < 30	< 50 110 < 50	< 50 120 < 50		
MANDAMESE TOTAL (US HM/L) ZINC, TOTAL (US ZN/L) NUTRIENTS	50 20	< 50 20	< 50 36	< 50 20		
CARBON. DISSOLVED ORGANIC (NO C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL ANTENIA (MO N/L)	5. 0. 02	5. 5. 0. 02	< 5. 0.05	9.05		
NITROSEM, NITRATE-MITRITE (MC M/L) ORTHOPHORPHATE, DISSOLVED (MC P/L) PHOSPHORUS, TOTAL (MC P/L)	0. 19 CO. 01 0. 04	0. 14 0. 01 0. 04	0. 02 (0. 01 0. 02	6. 63 6. 65		
BIOLOGICAL DATA	• •	•	•	•		
BACTERIOLODICAL DATA	•		•	:		
FECAL COLFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/F8 RATIO	1.00 1.82 0.15	0. 60 1. 83 0. 66	CD. 00 0. 95 CD. 14	9. 70 9. 20 8. 43		
DIOMAGE MEAGUREMENTS	•	•	•	•		
CHEGROPHYLL-A (UG/L) CHEGROPHYLL-B (UG/L) CHEGROPHYLL-C (UG/L)	12.3 1.0 0.4	13.3	1.2 0.1 < 0.1	₹ <b>8</b> . <b>1</b>		

TABLE E-4b

PARAMETER NAME (UNITS)	STATION 17-A 7/16/79	STATION 17-B 7/16/79	STATION 18-A 7/17/79	STATION 18-9 7/17/79
PHYSICAL DATA	, ,	,	•	
LABORATORY DATA	•	<i>;</i>	•	•
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	9. 60 88.	9.60 91.	9. 60 82.	9. 60 82.
TOTAL NONFILTERABLE RESIDUE (MO/L)	10.	10.	13.	; 12.
CHEMICAL DATA	•	•	•	•
MINERALS AND METALS	:	•	•	•
ALKALINITY, TOTAL (NO CACO3/L) SULFATE, TOTAL (NO SO4/L) SULFIDE, TOTAL (NO S/L)	34. < 0. 1	39. 3. C 0. 1	40. 5. < 0. 1	40. < 0. 1
IRON, DISSOLVED (UC FE/L) IRON, TOTAL (UC FE/L) MANGANESE, DISSOLVED (UC MN/L)	270 1270 50	250 1120 < 50	1000 < 50	60 840 < 30
MANGANESE, TOTAL (UG HN/L) ZINC, TOTAL (UG ZN/L)	110	90 50	100	120
NUTRIENTS	•	•	•	:
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL APPONIA (MG N/L)	co. 02	5. 0.02	5. 0. 05	5. 0. 05
NITROGEN, NITRATE+NITRITÉ (MG N/L) ORTHOPHOSPHATE, DISSOLVED (MG P/L) PHOSPHORUS, TOTAL (MG P/L)	0. 48 0. 03 0. 05	0. 48 0. 03 0. 05	0. 22 0. 02 0. 05	0. 21 0. 01 0. 05
BIOLOGICAL DATA			:	•
BACTERIOLOGICAL DATA	•	•	•	•
FECAL COLFORM (LDG10(/100ML)) FECAL STREPTOCOCCI (LDG10(/100ML)) FC/FS RATIO	2. 15 1. 63 2. 09	2.04 1.75 1.24	0. 48 3. 36 <0. 01	0. 30 3. 28 <0. 01
BIOMASS MEASUREMENTS	•			•
CHLOROPHYLL-A (UG/L) CHLOROPHYLL-B (UG/L) CHLOROPHYLL-C (UG/L)	1.0 0.3 < 0.1	2. 1 0. 6 0. 1	6. 0 0. 2 0. 1	6. 4 0. 7 0. 3

** LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACHO1-78-C-0101) PHASE II. CYCLE 5 (8/13-16/1979)
DATA FROM DUPLICATE ANALYSES

TABLE E-5a

PARAMETER NAME (UNITS)	STATION 1-A 8/15/79	STATION 1-8 8/15/79	STATION 12-A 8/16/79	STATION 12-B 8/16/79
PHYSICAL DATA	,	·	,	,
LABORATORY DATA	•	,	•	,
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MQ/L)	4.00 46	24. 3. 70 48.	1.20 53	1.00 50.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	< 10.	< 10.	: 10.
CHEMICAL DATA				
MINERALS AND METALS	•	;	;	
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	17. 4. 4.	17. 4.	37. < 1.	37. 3. < 1.
SULFIDE, TOTAL (MG 8/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	< 0.1 3.7 26.0	< 0. 1 3. 6 26. 0	< 0.1 11.0 52.0	< 0.1 10.0 48.0
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	80 540 < 50	80 540 < 50	270 < 50	70 250 < 50
MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L) SODIUM, TOTAL (MG NA/L)	70 1.9 5.90	70 1. 9 6. 00	< 50 0, 2 1, 50	< 50 0.2 1.50
ZINC, TOTAL (UG ZN/L)	50	30	60	40
NUTRIENTS				
CARBON, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	4. 5. 0. 04	5. 0. 02	7. <0. 02	7. co. oz
NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) ORTHOPHOSPHATE, DISSOLVED (MG P/L)	0.09 0.5 <0.01	0. 10 0. 5 <0. 01	0. 01 0. 01 0. 01	0. 02 0. 01
PHOSPHORUS, TOTAL (MG P/L)	0.02	0. 02	0. 01	0.02
BIOLOGICAL DATA				
BACTERIOLOGICAL DATA				
FECAL COLIFORM (LOG10(/100ML)) FECAL STREPTOCOCCI (LOG10(/100ML))	1.20 1.80	0. 70 1. 76	<0. 00 1. 57	<0.00 1.62

TABLE E-5b

PARAMETER NAME (UNITS)	STATION 17-A B/13/79	STATION 17-B 8/13/79	STATION 19-A 8/14/79	STATION (19-8) 8/14/79
PHYSICAL DATA	,	•	,	, , , ,
LABORATORY DATA	•		•	, ,
COLOR (PT-CO UNITS) TURBIDITY, HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (NG/L)	20. 2,50 71.	20. 2.50 77.	38. 7.10 73.	7.40 71.
TOTAL NONFILTERABLE RESIDUE (MG/L)	< 10.	<b>C 10</b> .	12.	; 10. ;
CHEMICAL DATA	•	• •	,	•
MINERALS AND METALS	•	•	•	•
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SD4/L)	64. 5. 1.	62. 4. 2.	36. 3. 4.	37. 5. 5.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARDNESS, TOTAL (MG CACO3/L)	<ul><li>0. 1</li><li>18. 9</li><li>86. 0</li></ul>	C 0. 1 17. 7 87. 0	60.1 8.3 60.0	< 0.1 6.7 57.0
IRON, DISSOLVED (UG FE/L) IRON, TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG HN/L)	120 430 < 50	130 490 < 50	110 680 50	490 · 490 ·
MANGANESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L) SODIUM, TOTAL (MG NA/L)	< 50 1,2 4,50	< 50 1.3 4.50	150 1.6 5.50	160 6.00
ZINC, TOTAL (UG ZN/L)	60	30	110	; 100 ;
NUTRIENTS		•	,	,
CARBON, DISSOLVED DREANIC (MG C/L) CARBON, TOTAL DREANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	5. 5. 0. 03	5. 0. 03	5. 5. 0. 05	5. 5. 0. 05
NITROGEN, NITRATE+NITRITE (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L) ORTHOPHOSPHATE, DISSOLVED (MG P/L)	0.55 0.5 0.03	0.47 0.5 0.05	0. 07 0. 5 <0. 01	0,07 0.5 0.02
PHOSPHORUS, TOTAL (MC P/L)	0. 05	0.05	0. 03	0.05
BIOLOGICAL DATA	•	•	<u>.</u>	•
BACTERIOLOGICAL DATA	•		•	
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML))	0. 95 1. 11	1. 90	3. 48	3. 57

. . LAKE SEMINGLE WATER QUAL! "Y MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWOI-79-C-9:91) PHASE II. CYCLE 6 (9/24-26/1979)

TABLE E-6a

PAHAKETER NAME (UNITS)	STATION 1-A 9/26/79	STATION 1-5 9/26/79	17-A	STATION 17-8 9/24/79
PHYSICAL DATA	•	•	•	•
LAB TRATORY DATA				
COLUR (9T-CO UNITS) TURNIDITY: HACH TURNIDINFTER (FTU) TOTAL FILTERAULE RESIDUE (MG/L)	25. 3.80 46.	25. 3.20 42.	32. 4.33 81.	31. 3.80 74.
TOTAL HONFILTERABLE RESIDUE (HGZL)	.7.	6.	5.	6.
CHEMICAL DATA	•		•	•
MINEHALS AND METALS	•		•	
ALKALINITY, TOTAL (MG CACO3/L) SULFATE, TOTAL (MG SD4/L) SULFIDE, TOTAL (MG S/L)	17. 5. < )-1	. 17. 5. < 0.1	42. 3. < 0.1	42. < 0.1
IRDN. DISSOLVED (UG FE/L) IRDN. TOTAL (UG FE/L) MANGANESE, DISSOLVED (UG MN/L)	< 50 +40 < 50	< 50 . 400 < 50	180 729 < 50	170 750 < 50
14 NGANESE: TITAL (UG MN/L) ZINC: TITAL (UJ ZN/L)	< 50 20	< 50 50	50 40	< 50 30
MUTRISHTS	•	:	•	
CARHON, DISSOLVED ORGANIC (MG C/L) CARHON, TOTAL ORGANIC (MG C/L) HITRUGEN, TOTAL AMMONIA (MG N/L)	6. 7. 9.04	7. 7. 0.02	3.07	5. 6. 0.08
MITRIJEN, MITRATE+MITRITE (MG N/L) MITRIJEN, TOTAL INDRGANIC (MG N/L) ORTHOPPSSPHATE, DISSULVED (MG P/L)		0.09 0.11 <0.01	0.61 0.63 0.03	9.61 9.67 9.03
PANSPHORUS. TOTAL (MG P/L)	0.03	0.93	0-05	9.05
DIULOGICAL DATA		•	•	
JACTERIULOGICAL DATA	•	:		•
FECAL CULFORM (LOGIS(/ISOML)) FECAL STREPTSCOCCT (LOGIS(/IOSML)) FECES MATIU	2.15 2.87 9.19	2.26 2.36 0.25	1.45 1.54 0.86	1.54 1.61 0.85
HE04455 MEASUREMENTS				
CHLORIPHYLL-A (USZL) CHLORIPHYLL-B (USZL) CHLORIPHYLL-C (USZL)	17.7 < 0.1 < 0.1	18.0 < 0.1 < 0.1	2.2	2.0 0.4 < 0.1

TABLE E-6b

PARA METER NAME (UNITS)	STATION 19-4 9/25/79	STATION 19-8 9/25/79
PHYSICAL DATA		
LAGGRATORY DATA		
COURT (PT-CO UNITS) TURBIDITY: HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	331 9.40 76.	38. 12.00 84.
TUTAL NUNFILTERABLE RESIDUE (MG/L)	16.	16.
CHEMICAL DATA		
TINERALS AND METALS		
ALKALINITY: TOTAL (MG CACO3/L) SULFATU: TOTAL (4G SO4/L) SULFIDE: TOTAL (MG S/L)	46. 4.: < 0.1	45. 4. < 0.1
1834, DISSOLVED (UG FE/L) 1834, TOTAL (UG FE/L) 18484NESE: DISSOLVED (UG MN/L)	< 50 1119 < 50	< 50 1030 < 50
JANGANESĖ, TOTAL (UG MNZL) ZINC, TOTAL (UG ZNZL)	90 40	90 30
HUTRIENTS		
CARBUN, DISSOLVED ORGANIC (MG C/L) CARBON, TOTAL ORGANIC (MG C/L) RITHUGEN, TOTAL AMMONIA (MG N/L)	5. 7. 0.68	5. 6. 1.08
MITRUGEN, MITRATE+MITRITE (MG NZL) MITRIGEN, TOTAL INERGANIC (MG NZL) DRIHOPHOSPHATE, DISSOLVED (MG PZL)	0.29 0.37 0.01	4.26 0.34 0.01
PHOSPHORUS: TOTAL (MG PZL)	0.05	0.05
BIOLOGICAL DATA		
SACTER IBLUGICAL DATA	•	
FUCAL CULFURM (LOGIO(ZISOML)) FECAL STREPFOCUTCI (LOGIO(ZISOML)) FCZFS RATIO	0.30 3.65 <0.03	0.00 3.67 <0.03
DIDHASS MEASUREMENTS	•	
CHLGROPHYLL -A (UG/L) 「CHLGROPHYLL - B (UG/L) 「CHLGROPHYLL - C (UG/L)	8.5 < 0.1 < 0.1	9.0 < 0.1 < 0.1

** LAKE SEMINOLE WATER STALLITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CUNTRACT DACWOL-78-C-0101) PHASE II, CYCLE 7 (12/3-6/1979)
DATA FROM DUPLICATE ANALYSES

TABLE E-7a

PARAMETER NAME (UNITS)	STATION 1-A 12/ 5/79	STATION 1-8 12/ 5/79	STATION 12-A 12/ 6/79	STATION 12-H 12/ E/75
PHYSICAL DATA				
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY, MACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	17. 6.80 52.	20. 7.50 50.	11. 1.70 63.	12. 1.70 74.
TOTAL NONFILTERABLE RESIDUE (MG/L)	14.	11.	< 10.	< 10.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	15. 4. 6.	16. 5. 5.	44. 3. < 1.	43. 3. < 1.
SULFIDE, TOTAL (MG S/L) CALCIUM, TOTAL (MG CA/L) HARONESS, TOTAL (MG CACO3/L)	< 0.1 2.5 19.2	< 0.1 2.6 17.9	< 0.1 16.9 51.2	< 0.1 19.0 50.5
IRON, DISSOLVED (JG FEZL) IRON, TOTAL (UG FEZL) MAGNESIUN, TOTAL (NG NGZL)	< 50 830 1.1	< 50 700 1-3	50 200 0• 5	240 0.8
MANGAMESE, DISSOLVED (UG MN/L) MANGAMESE, TOTAL (UG MN/L) POTASSIUM, TOTAL (MG K/L)	< 50 < 50 1.9	< 50 < 50 2.4	< 50 70 0•8	< 50 70 0.6
SODIUM. TOTAL (NG NA/L) ZINC. TOTAL (UG ZN/L)	6.30 20	5.30 20	3.60 20	3.50 20
NUTRIENTS				
CARRON, DISSILVED DRGANIC (MG C/L) CARDON, TOTAL DRGANIC (MG C/L) NITROGEN, TOTAL AMMONIA (MG N/L)	7. 6. 0.04	6. 6. 0.02	0.02 9.	0.05 10.
NITROGEN. NITRATE+NITPITE (MG N/L) NITROGEN. TOTAL INORGANIC (MG N/L) NITROGEN. TOTAL KJELDAHL (MG N/L)	0.34 0.35 0.4	0.35 0.37 0.3	0.04 0.06 0.3	3.07 0.05 0.3
NITROSEN, TOTAL ORGANIC (MG N/L) NITROSEN, TOTAL (NG N/L) ORTHOPHOSPHATE, DISSOLVED (MG P/L)	0.3 0.7 <0.01	0.3 0.6 <0.01	0.3 0.3 <0.01	0.3 0.3 <0.01
PHOSPHORUS. TOTAL (NG P/L)	0.02	0.02	0.31	0.01
910LOGICAL DATA				
BACTERIOLOGICAL DATA				
FECAL COLI-MRR (LOGIC(/130ML)) FECAL STREPTOCOCCI (LOGIG(/100ML)) FC/F3 RATIO	1.41	1.45	0.00 1.25 0.05	<3.00 1.09 <3.05
P BIOMASS MEASUREMENTS	•	•	•	
EUPHOTIC ZONE	•	0. ●		
CHLORIPHYLL-4 (UG/L) CHLORIPHYLL-R (UG/L) CHLOROPHYLL-C (UG/L)	10.7 4.2 0.7	14.6 0.8 0.7	1.1 3.6 < 0.1	0.9 0.6 < 0.1

TABLE E-7b

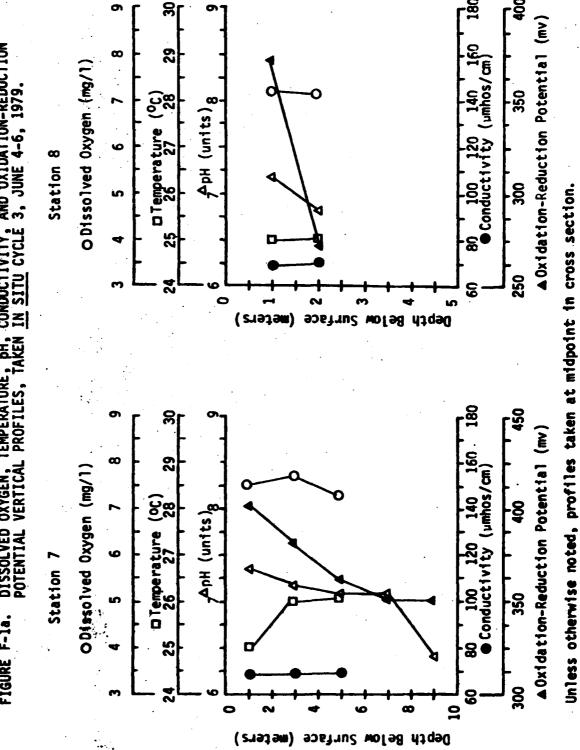
PARAMETER NAME (UNITS)	STAT ION 17-A 12/3/79	STATION 17-8 12/3/79	STATION 19-A 12/ 4/79	STATION 19-9 12/4/79
PHYSICAL DATA			· ·	
LABORATORY DATA				
COLOR (PT-CO UNITS) TURBIDITY: HACH TURBIDIMETER (FTU) TOTAL FILTERABLE RESIDUE (MG/L)	50. 5.60 79.	50. 6.20 78.	26. 9.30 72.	24. 9.40 70.
TOTAL NONFILTERAPLE RESIDUE (MG/L)	< 10.	< 10.	14.	13.
CHEMICAL DATA				
MINERALS AND METALS				
ALKALINITY, TOTAL (MG CACO3/L) CHLORIDE (MG CL/L) SULFATE, TOTAL (MG SO4/L)	35. 5. 2.	36. 5. 2.	36 • 4 • 5 •	35. 5. 5.
SULFINE. TOTAL (MG S/L) CALCIUM. TOTAL (MG CA/L) HARDNESS. TOTAL (MG CACO3/L)	< 0.1 7.2 39.7	< 0.1 7.3 42.5	< 0.1 6.6 37.4	< 0.1 8.3 37.0
IPON, DISSULVED (JG FE/L) IRON, TOTAL (UG FE/L) MAGNESIUM, TOTAL (MG MG/L)	500 1290 0.9	510 1290 0.9	100 950 1•1	90 1200 1.4
MANGANESE, DISSOLVED (UG MN/L) MANGANESE, TOTAL (UG MN/L) POTASSIU4, TOTAL (MG K/L)	< 50 < 50 2.0	< 50 < 50 1.6	< 50 60 2.0	< 5 \ 60 \ 1 • 6
SODIUM, TOTAL (MG NA/L)	3.40 20	3.00 30	4.10 30	4•40 50
NUTRIENTS	•	•		
CARDON: DISSOLVED DRGANIC (MG C/L) CARDON: TOTAL DRGANIC (MG C/L) NITROGEN: TOTAL AMMONTA (MG N/L)	6. 0.05	6. 0.04	5. 5. 0.02	5. 5. 0.03
NITROGEN, NITRATE NITRITE (MG N/L) NITROGEN, TOTAL INDRGANIC (MG N/L) NITROGEN, TOTAL KJELDAHL (MG N/L)	0.42 0.47 0.3	0.46 0.50 0.2	0.39 0.40 0.3	0.36 0.39 0.3
NITROGEN. TOTAL ORGANIC (MG N/L) NITROGEN. TOTAL (MG N/L) ORTHOPHOSPHATE. DISSOLVED (MG P/L)	0.2 0.7 0.03	0.2 0.7 0.03	0.3 0.7 0.01	0.3 0.5 0.22
PHOSPHORUS: TOTAL (MG P/L)	0.04	0.04	0.04	3.04
517L7G1CAL DATA	•	•		
BACTERIOLOGICAL DATA				•
FECAL COLIFORM (LOGIO(/100ML)) FECAL STREPTOCOCCI (LOGIO(/100ML)) FC/F5 RATIO	1.91	1.96	1.15	1.20
BIOMASS MEASUREMENTS	•	•	•	· •
SUPHOTIC ZONE	• •	•	•	•
CHLOROPHYLL-4 (UG/L) CHLOROPHYLL-6 (UG/L) CHLOROPHYLL-C (UG/L)	1.6 0.1 < 0.1	1.5	9.1 0.1 < 0.1	7.0 1.6 0.2

## APPENDIX F <u>IN SITU VERTICAL PROFILES AND ISOPLETHS</u>

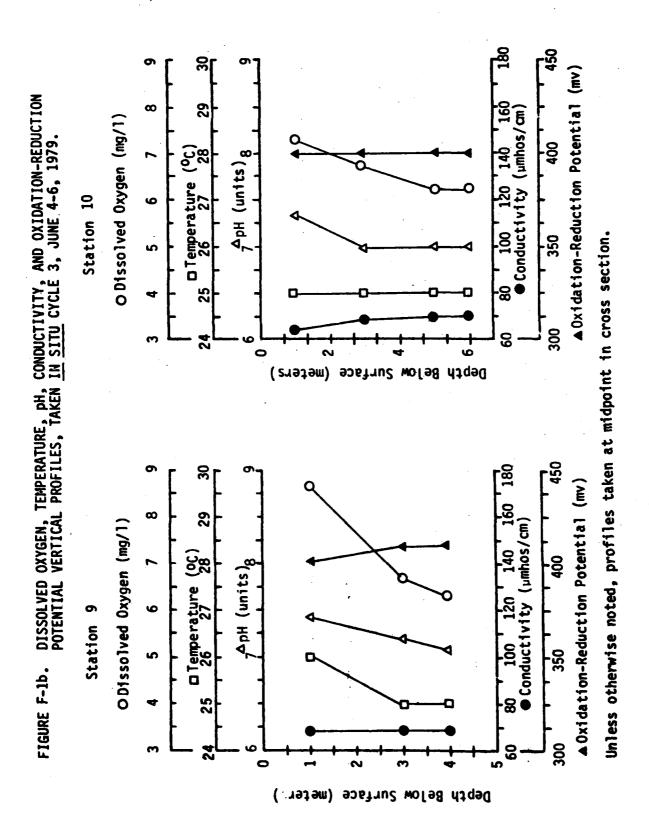
#### LIST OF FIGURES

FIGURE	DESCRIPTION	PAGE NO.
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F-2	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 4, July 16-19, 1979	F-5
F-3	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 5, August 13-16, 1979	F-9
F-4	Dissolved Oxygen, Temperature, pH, Conductivity, and Oxidation-Reduction Potential Vertical Profiles, Taken <u>In Situ</u> Cycle 6, September 24-26, 1979	F-13
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DISSOLVED OXYGEN, TEMPERATURE, PH. CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 3, JUNE 4-6, 1979. FIGURE F-1a.

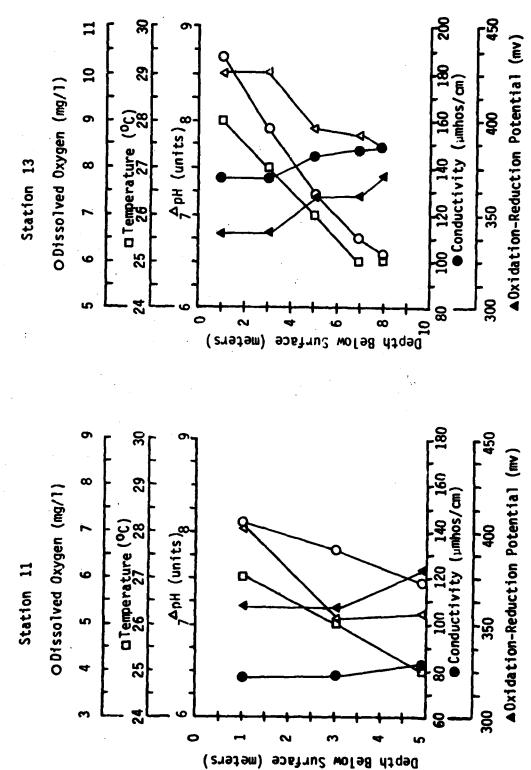


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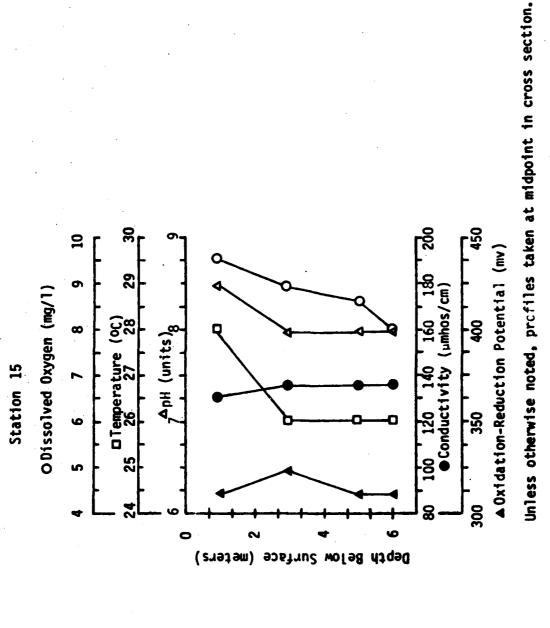


CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 3, JUNE 4-6, 1979. DISSOLVED OXYGEN, TEMPERATURE, PH, POTENTIAL VERTICAL PROFILES, TAKEN FIGURE F-1c.

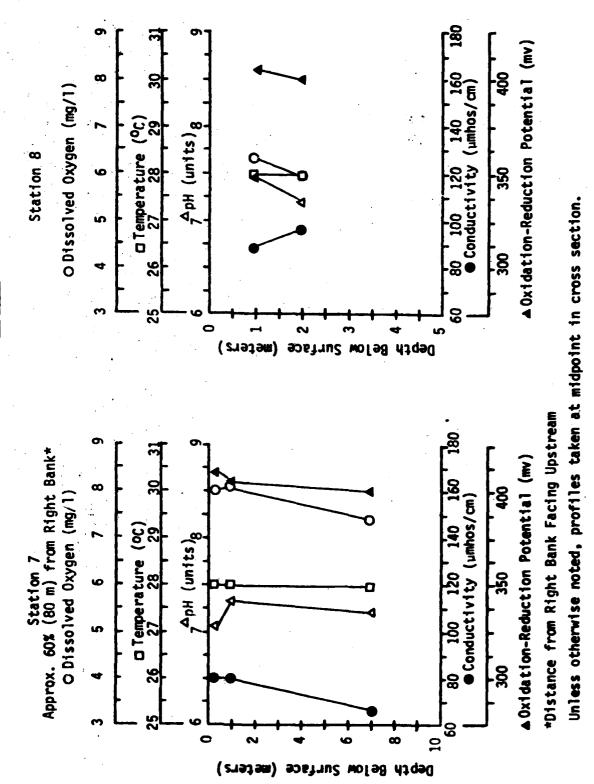
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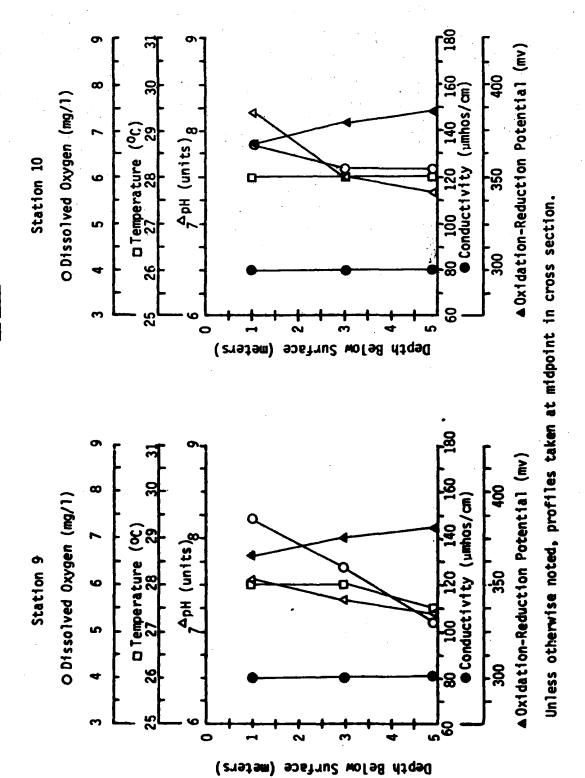
DISSOLVED OXYGEN, TEMPERATURE, PH. CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 3, JUNE 4-6, 1979. FIGURE F-1d.



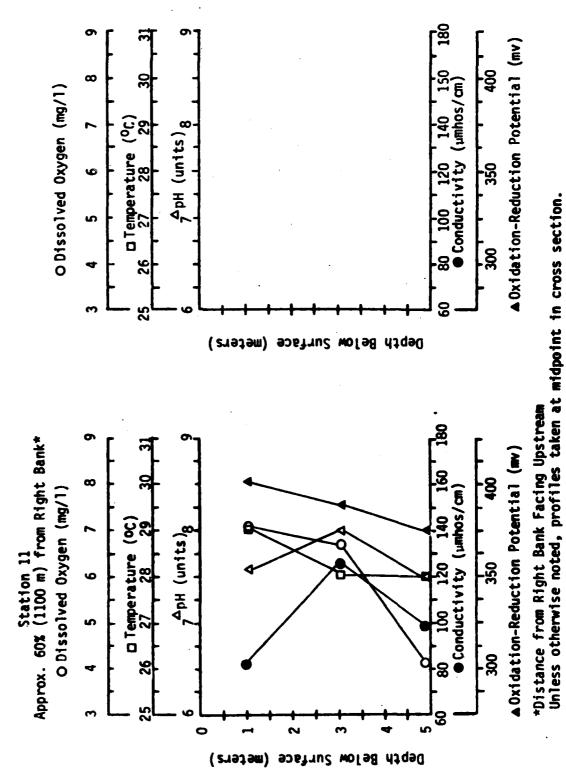
CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 4, JULY 16-19, 1979. DISSOLVED OXYGEN, TEMPERATURE, PH, POTENTIAL VERTICAL PROFILES, TAKEN FIGURE F-2a.



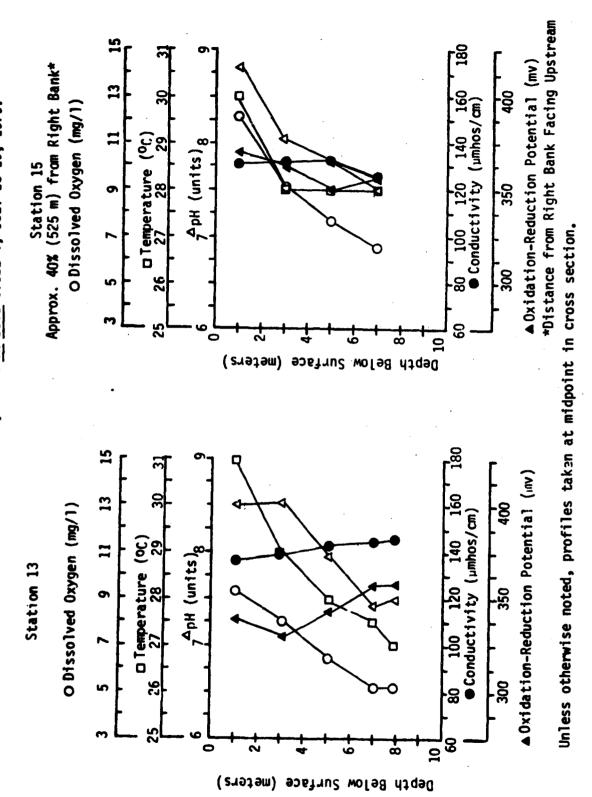
DISSOLVED OXYGEN, TEMPERATURE, PH. CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, JULY 16-19, 1979. FIGURE F-2b.



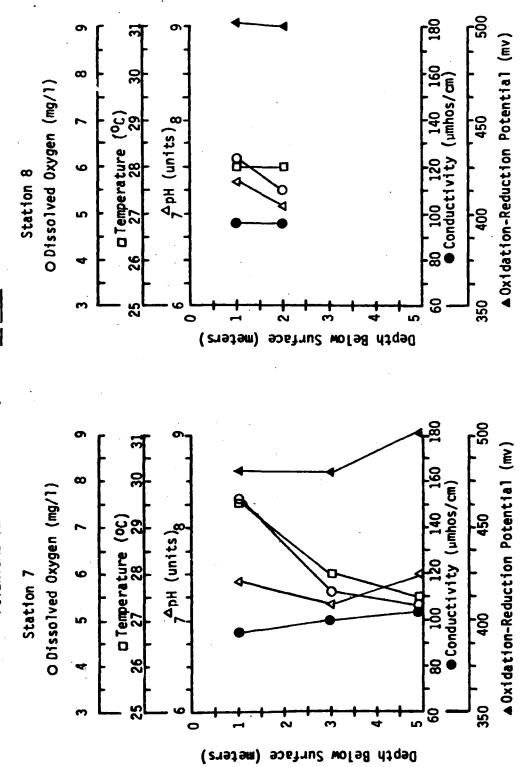
DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, JULY 16-19, 1979. FIGURE F-2c.



DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 4, JULY 16-19, 1979. FIGURE F-2d.

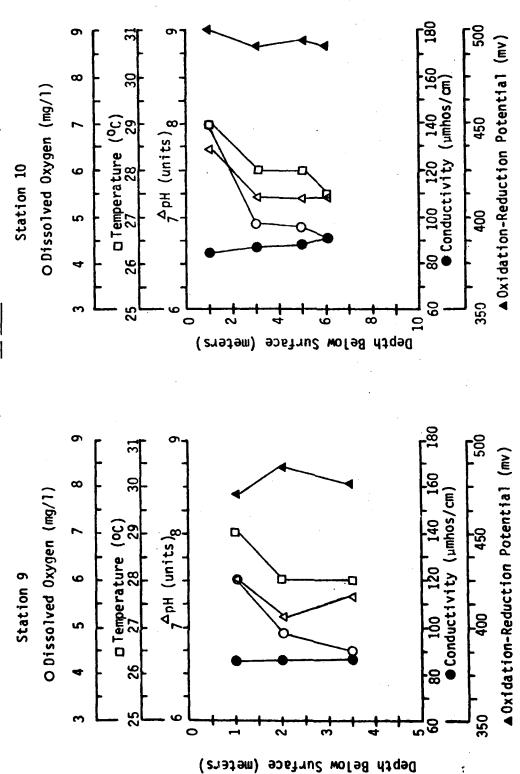


CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 5, AUGUST 13-16, 1979. DISSOLVED OXYGEN, TEMPERATURE, PH. POTENTIAL VERTICAL PROFILES, TAKEN FIGURE F-34.



Unless otherwise noted, profiles taken at midpoint in cross section.

CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 5, AUGUST 13-16, 1979. FIGURE F-3b. DISSOLVED OXYGEN, TEMPERATURE, pH, POTENTIAL VERTICAL PRUFILES, TAKEN

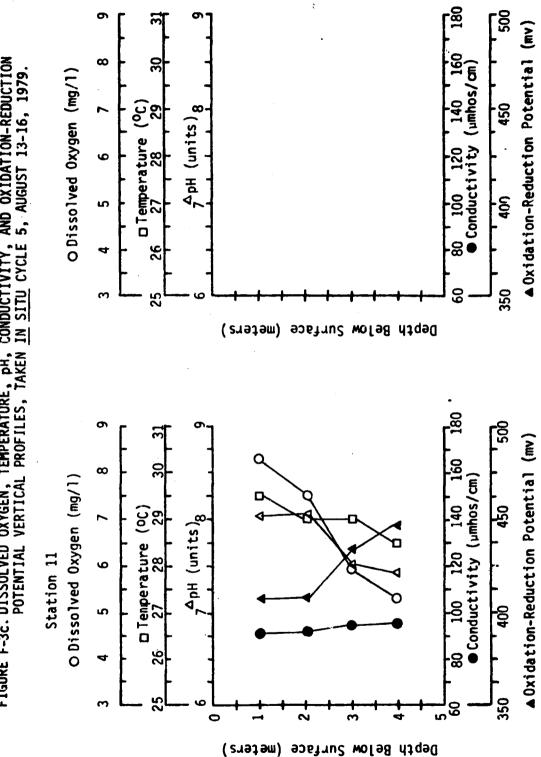


Unless otherwise noted, profiles taken at midpoint in cross section.

,14

CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 5, AUGUST 13-16, 1979. FIGURE F-3c. DISSOLVED OXYGEN, TEMPERATURE, pH, POTENTIAL VERTICAL PROFILES, TAKEN

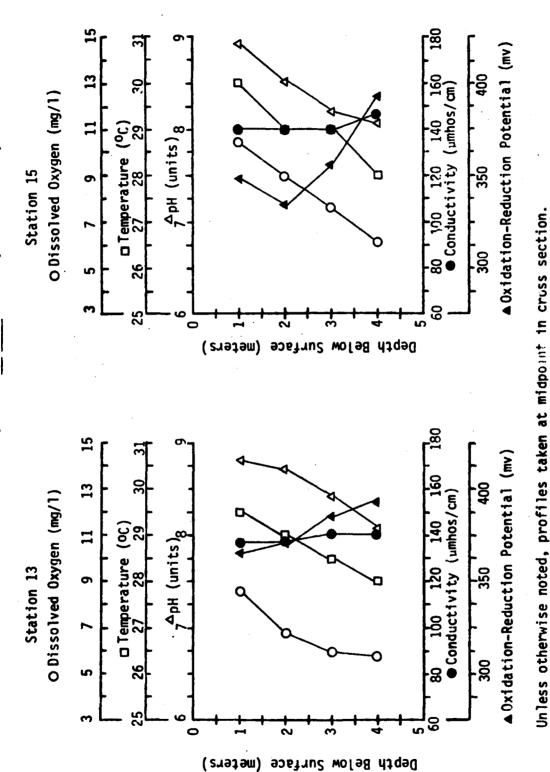
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Unless otherwise noted, profiles taken at midpoint in cross section.

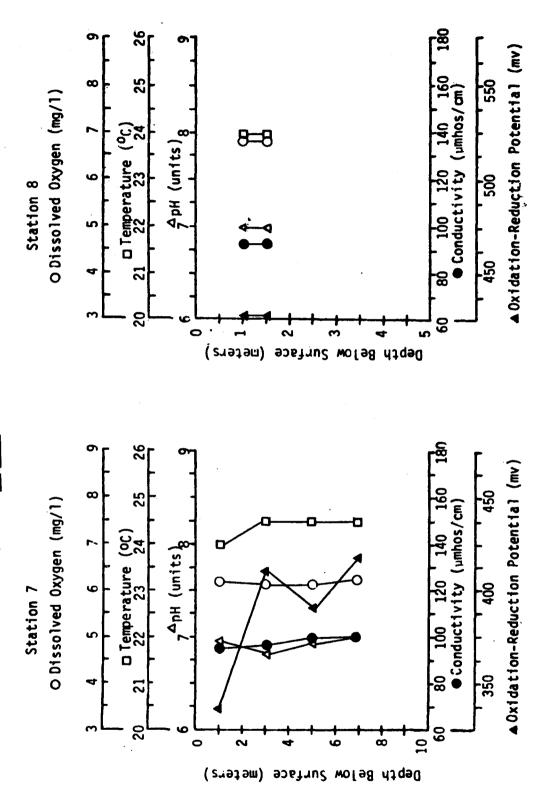
F-11

CONDUCTIVITY, AND OXIDATION-REDUCTION IN SITU CYCLE 5, AUGUST 13-16, 1979. DISSOLVED OXYGEN, TEMPERATURE, pH, POTENTIAL VERTICAL PROFILES, TAKEN FIGURE F-3d.

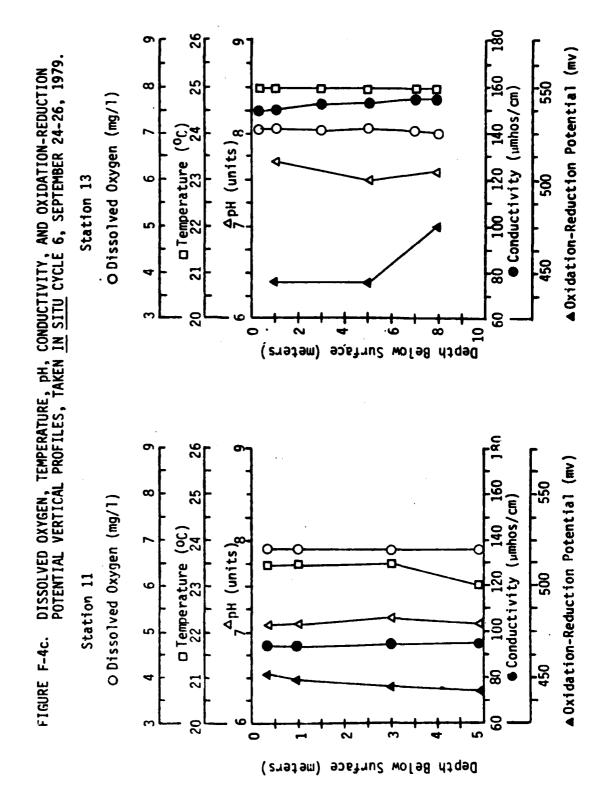


F-12

DISSOLVED OXYGEN, TEMPERATURE, pH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 6, SEPTEMBER 24-26, 1979 FIGURE F-4a

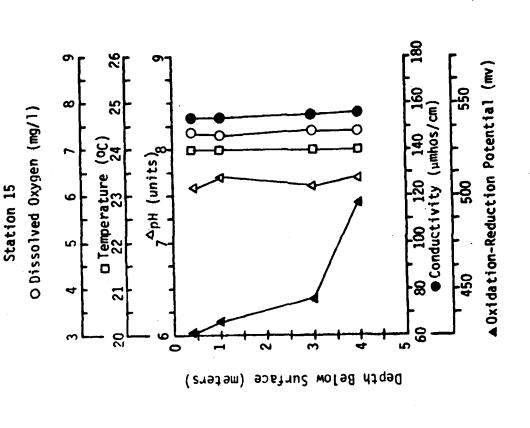


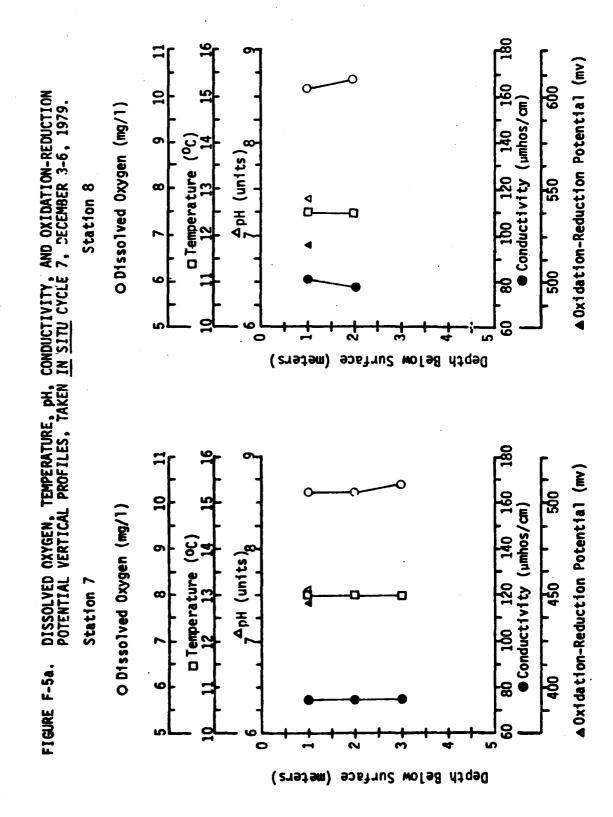
DISSOLVED OXYGEN, TEMPERATURE, pH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 6, SEPTEMBER 24-26, 1979. ▲ Oxidation-Reduction Potential (mv) ð '1òo'12o'14o'16i ●Conductívity (μmhos/αm) O Dissolved Oxygen (mg/l) (°C) 24 ApH (units)_β □Temperature 22 23 500 Station 10 S -0 21 20 Depth Below Surface (meters) 0 18 ▲Oxidation-Reduction Potential (mv) ■ Conductivity (µmhos/cm) O Dissolved Oxygen (mg/l) 140 . (OC) 7[∆]pH (units)₈ □ Temperature 22 23 120 Station 9 9 FIGURE F-4b. 100 500 21 20 0 Depth Below Surface (meters)



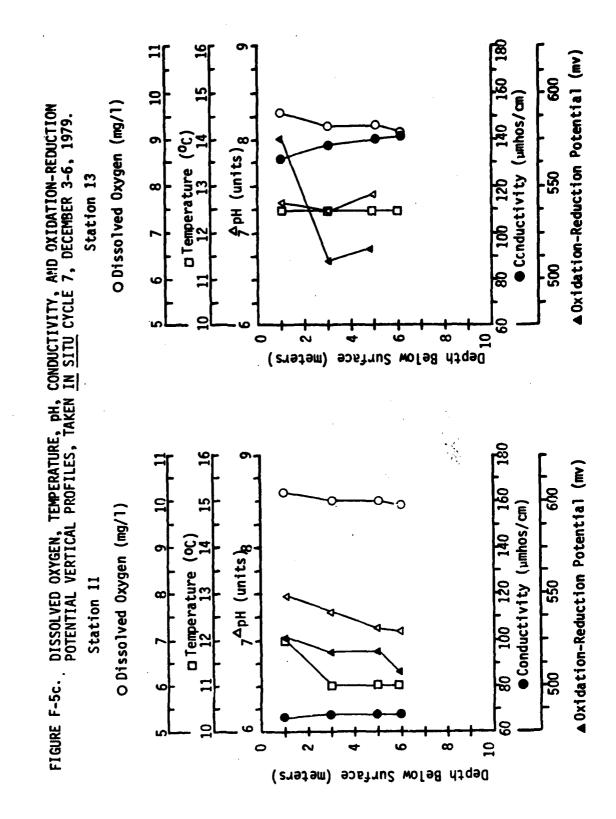
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DISSOLVED OXYGEN, TEMPERATURE, PH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 6, SEPTEMBER 24-26, 1979. FIGURE F-4d.





▲Oxidation-Reduction Potential (mv) DISSOLVED OXYGEN, TEMPERATURE, pH, CONDUCTIVITY, AND OXIDATION-REDUCTION POTENTIAL VERTICAL PROFILES, TAKEN IN SITU CYCLE 7, DECEMBER 3-6, 1979. (m)/soquin) O Dissolved Oxygen (mg/l) 9  $\beta$ pH (units) $_{\hat{g}}$ □Temperature 12 13 Station 10  $\infty$ 500 9 (meters) Depth Below Surface ▲ Oxidation-Reduction Potential (mv) 15 ● Conductivity (umhos/cm) O Dissolved Oxygen (mg/l) 100 120 140 ☐ Temperature (0C) 12 13 14 ApH (units)β Station 9 ω FIGURE F-5b. .8 9 Depth Below Surface (meters)



•••

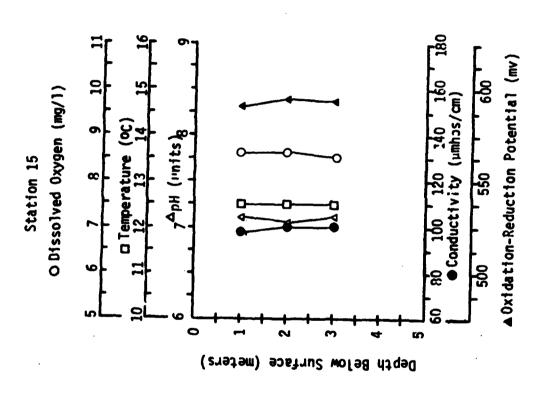
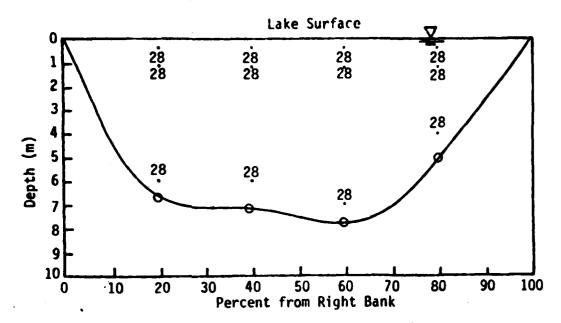


FIGURE F-6a. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 7.

### a.) Isotherms (°C)



### b.) Dissolved Oxygen (mg/l)

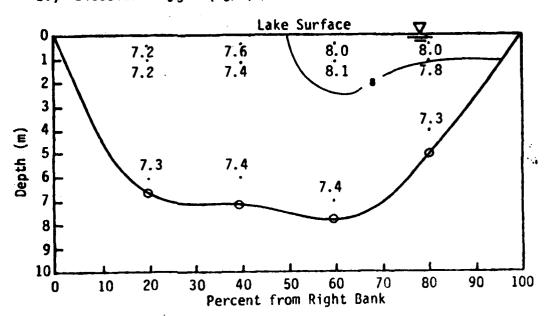
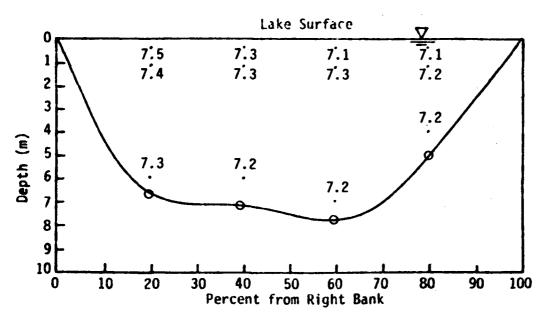


FIGURE F-6L TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 7.

c.) pH



### d.) Specific Conductance (µmho/cm @25°C)

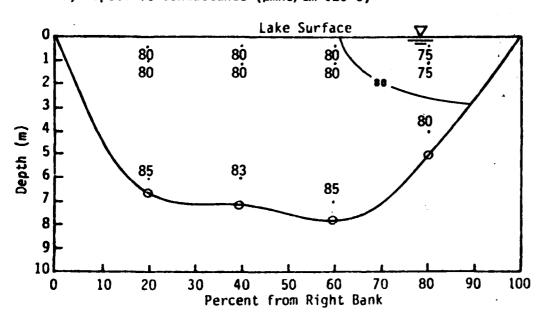


FIGURE F-6c. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 7.

e.) Oxidation Reduction Potential (mv)

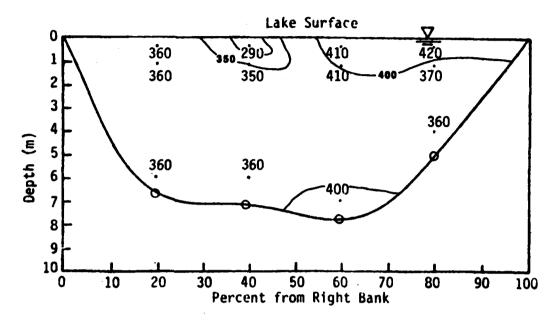
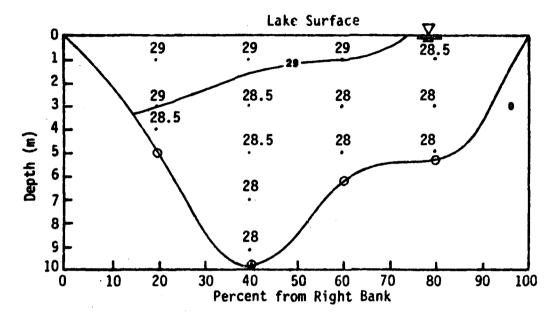


FIGURE F-7a. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 11.

### a.) Isotherms (OC)



### b.) Dissolved Oxygen (mg/l)

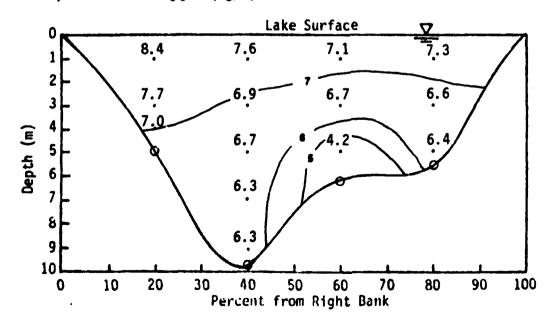
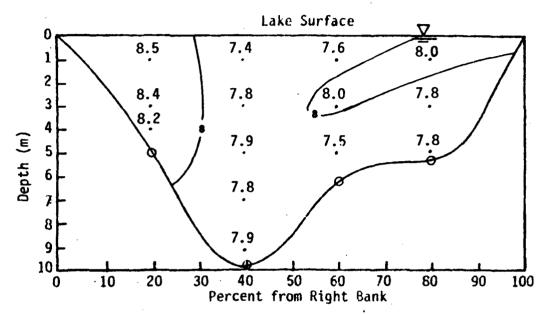


FIGURE F-74 TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 11.





### d.) Specific Conductance (µmho/cm @25°C)

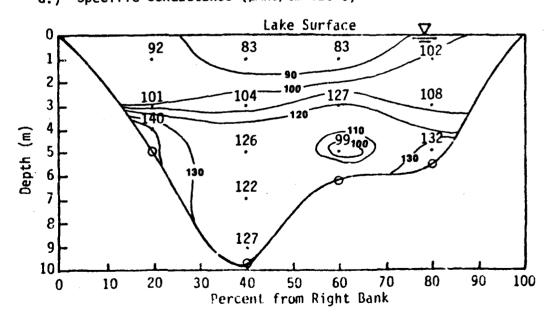


FIGURE F-7d. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 11.

### e.) Oxidation Reduction Potential (mv)

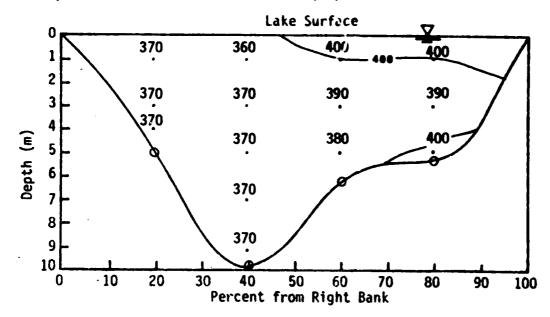
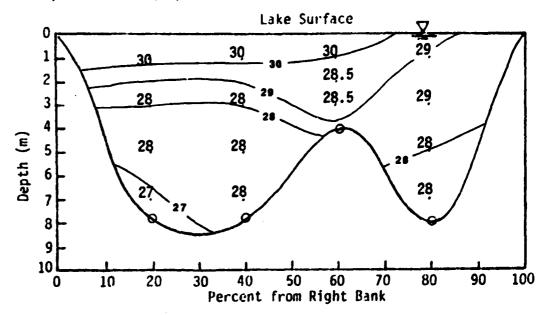


FIGURE F-8a. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 15.

### a.) Isotherms (OC)



### b.) Dissolved Oxygen (mg/l)

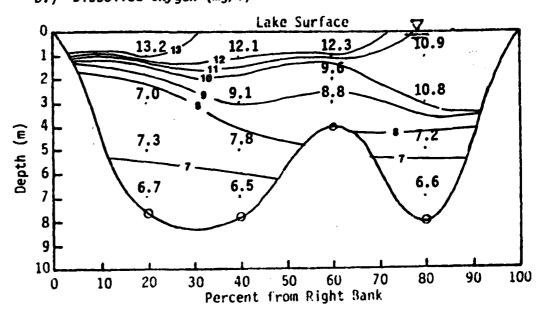
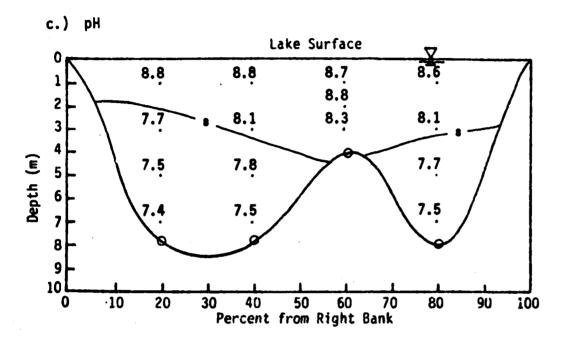


FIGURE F-8b. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 15.



### d.) Specific Conductance (μπho/cm @25°C)

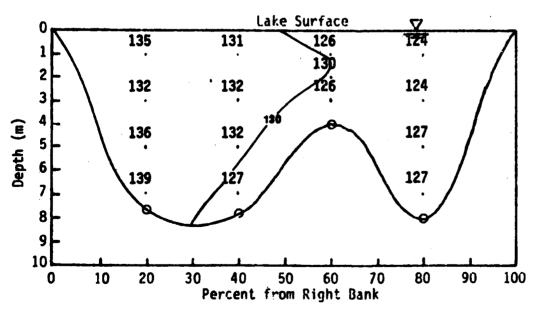
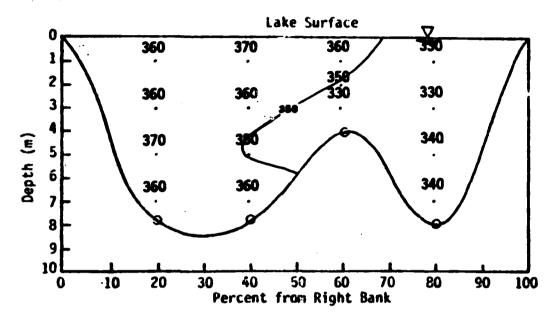


FIGURE F-8c. TEMPERATURE, DISSOLVED OXYGEN, pH, SPECIFIC CONDUCTANCE, AND OXIDATION-REDUCTION POTENTIAL ISOPLETHS TAKEN IN SITU, CYCLE 4, JULY 16-19, 1979 AT STATION 15.

### e.) Oxidation Reduction Potential (mv)



### APPENDIX G ALGAL GROWTH POTENTIAL TEST RESULTS

### LIST OF TAPLES

TABLE	DESCRIPTION	PAGE NO.
G-1	Algal Growth Potential Test Results, Cycle 2, April 2-4, 1979	G-1
G-2	Algal Growth Potential Test Results, Cycle 4, July 16-19, 1979	G-11
G-3	Algal Growth Potential Test Results Cycle 6. September 24-26, 1979	G-22

TABLE G-1a

ALGAL GROWTH POTENTIAL

Cycle 2 Station 6

Date Collected 4/4/79 Date Processed 4/5/79

				Growth F	esponse,	mg/l As!	n-Free		
		12	12 Day Count		14 Day Count	14	Day Co		Overall
		Renlicato				eplicate	C		1
Treatment	-	2	3.	$x \pm 2\sigma$	1 2 3	2	3	x ± 20	x ± 20
ΠM	8.23	8.19	7.37	7.93 ± 0.9	7.57	8.09	7.57	7.74 ± 0.60	8.19 7.37 7.93 $\pm$ 0.97 7.57 8.09 7.57 7.74 $\pm$ 0.60 7.84 $\pm$ 0.75
LW+P	15.6	14.9	11.3	13.9 ± 4.6	51 15.4	15.3	15.4	15.4 ± 0.12	14.7 ± 3.31
LW+N	8.08	8.16	8.18	8.14 ± 0.1	11 7.76	8.18	8.22	8.05 ± 0.51	8.10 ± 0.34
LW+P+N	30.5	30.9	28.9	30.1 ± 2.1	12 30.2	30.8	28.5	29.8 ± 2.39	30.0 ± 2.04
LW+E	7.69	7.73	7.86	7.76 ± 0.1	18 7,35	7.17	7.13	7.22 ± 0.23	7.49 ± 0.62
LW+P+E	15.5	15.5	15.4	15.5 ± 0.1	14.9	14.2	14.5	14.5 ± 0.70	15.5 15.4 15.5 $\pm$ 0.12 14.9 14.2 14.5 14.5 $\pm$ 0.70 15.0 $\pm$ 1.12
LW+N+E	7.77	8.21	8.61	8.20 ± 0.8	14 7.85	7.97	7.85	7.89 ± 0.14	8.21 8.61 8.20 $\pm$ 0.84 7.85 7.97 7.85 7.89 $\pm$ 0.14 8.04 3.53
LW+P+N+E	29.0	28.6	31.5	29.7 ± 3.1	4 28.7	30.7	30.9	30.1 ± 2.43	29.9 ± 2.55

Background Water Quality

After

Before

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike
Total Kieldahl

Parameter and Units	Processing	Processing
HO	7.2	7.2
Specific Conductance (umho cm ⁻¹ )	65	73
Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.62	0.38
NH ₂ -N (mg N 1 ⁻¹ )	0.02	<0.02
NO, + NO, - N (mg N 1 1)	0.342	0.405
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.010	0.019
Total Phosphorus (mg P $1^{-1}$ )	0.043	0.036

TABLE G-1b

ALGAL GROWTH POTENTIAL

Date Collected 4/3/79 Date Processed 4/5/79

Cycle 2 Station 7

				Growth Response, mg/l Ash-Free Dry Wt.	ponse, I	ng/1 As	h-Free	Dry Wt.		
		12	12 Day Count	1 .		14	14 Day Count	unt		Overall
		Reniscate			N.	Replicate	9	.!		•
Treatment		lم	3	x ± 2σ	1	2	3	×	x ± 20	x ± 20
	5.64	5.93	5.79	5.79 ± 0.29	6.23	6.39	6.19	6.27	6.23 6.39 6.19 6.27 ± 0.21	6.03 ± 0.58
LW+P	14.8	14.7	15.3	14.9 ± 0.64	14.8	14.2	16.2	15.1	± 2.07	14.2 16.2 15.1 ± 2.07 15.0 ± 1.37
LW+N	6.40	6.30	6.24	6.31 ± 0.16	6.10	5.69		5.94	6.04 5.94 ± 0.44	6.13 ± 0.50
LW+P+N	26.5	26.8	26.6	26.6 26.6 ± 0.31 27.7 28.0	27.7	28.0	28.6	28.1	± 0.92	28.6 28.1 ± 0.92 27.4 ± 1.72
LY+E	6.60	6.50	6.48	6.53 ± 0.13	6.23		6.05	6.10	± 0.23	6.02 6.05 6.10 $\pm$ 0.23 6.31 $\pm$ 0.50
LW+P+E	14.5	14.4	15.4	14.8 ± 1.10 15.0 14.9 15.8 15.2 ± 0.99 15.0 ± 1.07	15.0	14.9	15.8	15.2	± 0,99	15.0 ± 1.07
LW+N+E	5.76	5.91	5.89	5.85 ± 0.16 6.49 6.57	6.49	6.57		6.49	6.41 6.49 ± 0.16	$6.17 \pm 0.71$
LW+P+N+E	27.4	27.7	28.5	28.5 27.9 ± 1.14 27.9 27.9 27.6 27.8 ± 0.35 27.8 ± 0.76	27.9	27.9	27.6	27.8	± 0,35	27.8 ± 0.76

Background Water Quality

		Before	After
;	Parameter and Units	Processing	Processing
P spike N spike	- T	7.3	7.2
EDTA spike	Specific Conductance (umho cm ⁻¹ )	75	83
	Total Kjeldahl Nitrogen (mg N 1-1)	8Z:0	0.46
	$NH_2-N \ (mg \ N \ 1^{-1})$	<0.02	0.02
	NO. + NO N (mg N 1 1)	0.358	0.394
	Dissalved Ortho-phosphate (mg P 1-1)	0.008	0.015
	Total Phosphorus (mg P 1-1)	0.038	0.031

TABLE G-1c

ALGAL GROWTH POTENTIAL

6 Station

4/5/19 Date Processed Date Collected 4/3/79

0.68 0.39 ± 0.92 ± 0.47 ± 2a Overa 7.30 ± 2.14 27.9 28.3 28.4 28.2 ± 0.53 ± 0.42 ± 1.10 ± 1.03 7.25 ± 0.72 ± 0.50 7.13 ± 0.22  $7.20 \pm 0.29$ x ± 20 Growth Response, mg/l Ash-Free Dry Wt. 28.0 12.4 4 Day Coun 6.98 7.06 7.03 7.03 12.8 12.7 28.1 eplicate 7.66 7.50 7.10 11.8 11.8 27.8 7.11 7.25 12.8 7.31 12.5 28.2 ± 0.20 ± 0.20  $7.18 \pm 0.16$ ± 0.92  $7.39 \pm 0.42$ ± 0.42 ± 0.23 ± 20 7.40 27.9 11.9 12.0 27.8 7.14 7.47 7.52 12.0 12.1 27.3 29.1 Day eplicate 7.12 7.51 6.97 7.27 11.8 12.0 28.1 27.7 7.39 7.46 7.15 7.27 27.0 11.9 11.9 28.1 reatment J+N+d+M1 LW+P+N LW+N+E LW+P+E LW+P L¥+N C¥E 3

Background Water Quality

After

Before

0.05 mg/l P spike 1.00 mg/l N spike 1.00 mg/l EDTA spike

Parameter and Units	Processing	Processing
FG.	7.4	7.4
Specific Conductance (umho cm ⁻¹ )	74	. 78
Total Kjeldahl Nitrogen (mg N 1-1)	0.61	0.49
NH ₂ -N (mg N 1 ⁻¹ )	<0.02	0.02
$NO_2^- + NO_2^ N \text{ (mg N I}^-\text{I})$	0.266	00:300
Dissolved Ortho-phosphate (mg P 1-1)	0.009	0.017
Total Phosphorus (mg P $1^{-1}$ )	0.047	0.038

TABLE G-1d

## ALGAL GROWTH POTENTIAL

Cycle 2 Station 10

Date Collected 4/3/79 Date Processed 4/5/79

Growth Response ma/1 Ash-Free Dry Wt

				Growth Ke	sponse,	mg/ I AS	n-rree	Ury Wt.	
		12	12 Day Count	unt 14 Day Count		14	Day Co	int	Overall
		Rep I car	9		_	eplicat	٥		
Treatment		2	3	$\frac{1}{3}$ $\frac{1}{x} \pm 2\sigma$ 1 2 3	1	2	3	x ± 20	x ± 20
LW	7.05	7	7.44	7 33 ± 0.50	7.55	7.34	7.30	7.40 ± 0.27	51 7.44 7 33 ± 0.50 7.55 7.34 7.30 7.40 ± 0.27 7.37 ± 0.36
LW+P	11.3	11.8	11.6	11.6 ± 0.50	12.2	11 8	12.2	12 1 ± 0.46	8 11.6 11.6 ± 0.50 12.2 11.8 12.2 12.1 ± 0.46 11.0 ± 0.50
LIVEN	7,65	7	7.24	7.42 ± 0.42	7,11	7 10	7 44	7 25 ± 0 34	37 7.24 7.42 ± 0.42 7.11 7.19 7.44 7.25 ± 0.34 7.32 ± 0.30
LW+P+N	28.8	29.4	28.5	28.9 ± 0.92	30.8	28.7	30.7	30 1 ± 2 37	4 28.5 28.9 ± 0.92 30.8 28.7 30.7 30.1 ± 2.37 28.5 ± 2.05
LW+E	7.22	7.22	7 30	7.25 ± 0.09	6.80	6.73	6 72	6 75 ± 0 09	22 7 30 7 25 ± 0 09 6.80 6.73 6 72 6 75 ± 0 09 7 00 ± 0 55
LW+P+E	11.9	12.1	11.1	11.7 ± 1.06	13.4	11.7	13.1	12.7 ± 1.81	1 11.1 11.7 ± 1.06 13.4 11.7 13.1 12.7 ± 1.81 12.2 ± 1.75
TM+N+E	7.48	7.47	7.59	7.51 ± 0.13	6.48	6.85	7.25	6.86 ± 0.77	47 7.59 7.51 ± 0.13 6.48 6.85 7.25 6.86 ± 0.77 7.19 ± 0.87
LW+P+N+E	29.2	29.7	29.7	29.5 ± 0.58	26.1	29.9	32.5	29.5 ± 6.44	.7 29.7 29.5 $\pm$ 0.58 26.1 29.9 32.5 29.5 $\pm$ 6.44 29.5 $\pm$ 4.09

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Berore Processing	At <b>ter</b> Processing
Нд	7.3	7.4
Specific Conductance (umho cm ⁻¹ )	7.1	78
Total Kjeldahl Nitrogen (mg N 1-1)	0.54	0.46
$NH_3-N \ (mg \ N \ 1^{-1})$	<0.02	<0.02
$NO_2^- + NO_3^ N \text{ (mg N 1}^-\text{I})$	0.281	0.312
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.004	0.017
Total Phosphorus (mg P $1^{-1}$ )	0.051	0.038

TABLE G-1e

## ALGAL GROWTH POTENTIAL

Cycle 2 Station 11

Date Collected 4/3/79 Date Processed 4/5/79

				Growth Re	sponse,	mg/1 As	h-Free	Dry Wt.			
		12	12 Day Count			F	Day Co	unt		Overall	_
	ľ	Replicat	P			Policat	ē				•
Treatment	1	2	2 3	$\overline{x} \pm 2\sigma$ 1 2 3	1	2	3	× ± 20	<b>2</b> 0	× ± 2α	
LW.	5,60	5,58	5.70	Et 0 = E9 S	5.71	5,85	5.30	5.62	± 0.57	5.58 5.70 5.63 ± 0.13 5.71 5.85 5.30 5.62 ± 0.57 5.62 ± 0.37	<u> </u>
LW+P	11.2	11.2	11.3	11.2 ± 0.12	10.4	9.94	10.2	10.2	± 0.46	1.2 11.3 11.2 ± 0.12 10.4 9.94 10.2 10.2 ± 0.46 10.7 ± 1.19	_
LW+N	5.81	5.52	5.54	5.62 ± 0.32	5.64	5.30	4.97	5.30	± 0.67	5.52 5.54 5.62 ± 0.32 5.64 5.30 4.97 5.30 ± 0.67 5.96 ± 0.59	<del></del>
LW+P+N	27.8	27.6	28.0	27.8 ± 0.40	27.2	24.4	26.5	26.0	2.91	7.6 28.0 27.8 ± 0.40 27.2 24.4 26.5 26.0 ± 2.91 26.9 ± 2.68	_
LW+E	5.75	5.11	5.32	5.39 ± 0.65	5.26	5.30	5.71	5.42	± 0.50	$5.11   5.32   5.39 \pm 0.65   5.26   5.30   5.71   5.42 \pm 0.50   5.41 \pm 0.52$	1
LW+P+E	11.5	11.3	11.6	11.5 ± 0.31	10.9	10.5	10.8	10.7	± 0.42	i.3 $11.6$ $11.5 \pm 0.31$ $10.9$ $10.5$ $10.8$ $10.7 \pm 0.42$ $11.1 \pm 0.87$	_
LW+N+E	5.41	5.74	5.52	5.56 ± 0.34	5.01	4.83	5.05	4.96	± 0.23	5.74 5.52 5.56 ± 0.34   5.01   4.83   5.05   4.96 ± 0.23   5.26 ± 0.70	_
LW+P+N+E	29.7	27.9	27.4	28.3 ± 2.42	29.7	28.9	27.6	28.7	\$ 2.12	7.9 27.4 28.3 ± 2.42 29.7 28.9 27.6 28.7 ± 2.12 28.5 ± 2.08	_

	spike	spike	EDTA spike
Water	mg/l P		mg/1 E
		7.00	
н	11	H	H
3	_	_	ш

Parameter and Units	Before Processing	After Processing
Нd	7.1	7.1
Specific Conductance (umho cm ⁻¹ )	68	95
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.66	09.0
NH3-N (mg N 1-1)	<0.02	0.02
$NO_2 + NO_3 - N \text{ (mg N 1}^T\text{)}$	0.247	0.274
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	<0.002	0.013
Total Phosphorus (mg P $1^{-1}$ )	0.049	0.036

Background Water Quality

TABLE G-1f

ALGAL GROWTH POTENTIAL

Date Processed 4/4/79 Date Collected 4/2/79

Station 13

Cycle 2

				Gr	Growth Response, mg/l Ash-Free Dry Wt.	ponse,	mg/1 As	h-Free	Dry Wt	•		
		12	12 Day Count				14	Day Co	unt		ð	Overall
		Renticate	a				eplicat	a			ſ	
Treatment	-		3	۱×	× ± 20	1	1 2 3	3	×	$\dot{x} \pm 2\sigma$	×	x ± 20
ΓM	11.4	11.1	10.9	11.1	± 0,50	11.0	12.1	12,1	11.7	± 1,27	11.4	1 10.9 11.1 $\pm$ 0.50 11.0 12.1 12.1 11.7 $\pm$ 1.27 11.4 $\pm$ 1.09
LW+P	14.8	15.5	12.9	24.4	± 2.69	15.1	15.5	15.5	15.4	±0.46	9 41	$5$ 12.9 24.4 $\pm$ 2.69 15.1 15.5 15.5 15.4 $\pm$ 0.46 14.9 $\pm$ 2.03
LW+N	11.4		11.4	11.5	± 0.46	10.7	11.7	11.6	11.3	± 1,10	11.4	8 11.4 11.5 $\pm$ 0.46 10.7 11.7 11.6 11.3 $\pm$ 1.10 11.4 $\pm$ 0.79
N+D+M1	30.0	31.6	30.4	30.7	± 1.67	30.7	34.1	33.0	32.6	±3,47	31.6	6 30.4 30.7 $\pm$ 1.67 30.7 34.1 33.0 32.6 $\pm$ 3.47 31.6 $\pm$ 3.23
LW+E	12.0	11.5	11.0	11.5	± 1.00	12.8	11.2	11.7	11.9	±1.64	711	5 11.0 11.5 ± 1.00 12.8 11.2 11.7 11.9 ± 1.64 11.7 ± 1.29
LW+P+E	15.2		15.2	15.2	± 0.12	16.2	15.9	16.5	16.2	₹ 0,60	15.7	3 15.2 15.2 $\pm 0.12$ 16.2 15.9 16.5 16.2 $\pm 0.60$ 15.7 $\pm 1.13$
LW+N+E	11.4		11.6	11.5	± 0,23	12.3	11.4	12.0	11.9	±0.92	7711	6 11.6 11.5 $\pm$ 0.23 12.3 11.4 12.0 11.9 $\pm$ 0.92 11.7 $\pm$ 0.72
LW+P+N+E	31.6	32.6	33.8	32.7	± 2,20	33.0	32.1	35.9	33.7	± 3,97	33.2	6 33.8 32.7 ± 2.20 33.0 32.1 35.9 33.7 ± 3.97 33.2 ± 3.07

Background Water Quality

	Parameter and Units	Before Processing	After Processing
ke Ke	Ho	8.1	8.0
spike	Specific Conductance (umho cm ⁻¹ )	106	113
	Total Kieldahl Nitrogen (mg N 1-1)	0.52	0.58
	NHN (mg N 1-1)	<0.02	<0.02
	NO. + NO N (mg N 1-1)	0.440	0.410
	Dissolved Ortho-phosphate (mg P 1-1)	0.019	0.026
	Total Phosphorus (mg P $1^{-1}$ )	0.050	0.046

TABLE G-19

ALGAL GROWTH POTENTIAL

Date Collected 4/2/79 Date Processed 4/4/79

Cycle 2 Station 14

•				Grc	Growth Response, mg/! Ash-Free Dry Wt.	ponse,	mg/ I AS	n-rree	Dry Mt			
		12	Jay Co	unt			14 Day Count	Day Co	unt		Overall	
-	Ĩ	Replicate	٥			<u> </u>	eplicat	a				
Treatment	1	2	2 3	١×	x ± 20	1	1 2 3	3	١×	$\bar{x} \pm 2\sigma$	$\overline{x} \pm 2\sigma$	
r.	1.03	2.30	1.26	1.53	± 1.35	2.26	1.80	1.78	1.95	± 0.54	2.30 1.26 1.53 ± 1.35 2.26 1.80 1.78 1.95 ± 0.54 1.74 ± 1.03	_
LW+P	15.3	15.0	15.5	15.3	± 0.50	15.0	15.9	15.8	15.6	± 0.99	15.0   15.5   15.3 ± 0.50   15.0   15.9   15.8   15.6 ± 0.99   15.4 ± 0.77	
LW+N	976.		1.63	1.27	÷ 0.66	2.03	1.97	1.79	1.93	± 0.25	1.20 1.63 1.27 ± 0.66 2.03 1.97 1.79 1.93 ± 0.25 1.60 ± 0.85	
LW+P+N	24.8	23.5	22.5	23.6	± 2.31	23.6	22.4	20.5	22.2	± 3.13	23.5 22.5 23.6 ± 2.31 23.6 22.4 20.5 22.2 ± 3.13 22.9 ± 2.92	
LW+E	1.06	1.22	1.16	1.15	± 0.16	.920	1.36	1.78	1.35	± 0.86	1.22 1.16 1.15 $\pm$ 0.16 .920 1.36 1.78 1.35 $\pm$ 0.86 1.25 $\pm$ 0.60	
LW+P+E	15.9	14.9	15.3	15.4	10.1	13.6	12.9	15.5	14.00	± 2.69	1.9 15.3 15.4 ± 1.01 13.6 12.9 15.5 14.00 ± 2.69 14.7 ± 2.35	
LW+N+E	2.32	1.32	1.09	1.58	± 1.31	1.63	1.42	1.63	1.56	± 0.24	1.32 1.09 1.58 ± 1.31 1.63 1.42 1.63 1.56 ± 0.24 1.57 ± 0.84	
LW+P+N+E	20.5	21.3	21.4	21.1	€ 0.99	19.8	23.4	19.9	21.0	± 4.10	1.3 21.4 21.1 $\pm$ 0.99 19.8 23.4 19.9 21.0 $\pm$ 4.10 21.1 $\pm$ 2.67	

Background Water Quality

After

Before

W = Lake Water
= 0.05 mg/l P spike
= 1.00 mg/l N spike
= 1.00 mg/l EDTA spike E N P E

Parameter and Units	Processing	Processing
Н		7.6
Specific Conductance (umho cm ⁻¹ )	201	203
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.56	0.48
$NH_3-N \ (mg \ N \ 1^{-1})$	0.02	0.02
$NO_2^- + NO_3^ N \text{ (mg N 1}^-\text{I})$	0.378	0.379
Dissolved $0r$ tho-phosphate (mg P $1^{-1}$ )	0,003	0,005
Total Phosphorus (mg P $1^{-1}$ )	0.018	0.011

TABLE G-1h

ALGAL GROWTH POTENTIAL

Cycle 2 Station 15

Date Collected 4/2/79 Date Processed 4/4/79

Growth Response, mg/1 Ash-Free Dry Wt.

					di OM CII NESPONSE, INJ/ 1 ASII-LI EE DI'Y ML.	polise,	2		7 4 7	•			
		12	12 Day Count				14	14 Day Count	unt		Overall	ral	
		Replicat	cate			ř	eplicat	٥					
Treatment	1	2	3	۱×	$\overline{x} \pm 2\sigma$ 1 2 3	1	2	3	×	x ± 2σ	١×	$\bar{x} \pm 2\sigma$	
LW	96.6	9.18	9.75	9.63	± 0.81	10.4	9.98	10.4	10.3	9.75 9.63 $\pm$ 0.81 10.4 9.98 10.4 10.3 $\pm$ 0.48 9.95 $\pm$ 0.91	9,95	+	.91
LW+P	19.2	20.7	20.8	20.2	± 1.79	21.1	20.8	22.5	21.5	20.8   20.2 $\pm$ 1.79   21.1   20.8   22.5   21.5 $\pm$ 1.81   20.9 $\pm$ 2.10	20.9	+1	01,
LW+N	10.4	10.4	10.5	10.4	± 0.12	10.3	10.8	10.7	10.6	10.5   10.4 $\pm$ 0.12   10.3   10.8   10.7   10.6 $\pm$ 0.53   10.5 $\pm$ 0.39	10.5	+1	39
LW+P+N	33.4	33.6	33.6	33.6	± 0.23	30.5	29.5	28.7	29,6	33.6   33.6 $\pm$ 0.23   30.5   29.5   28.7   29.6 $\pm$ 1.80   31.6 $\pm$ 4.49	31.6	+1	1.49
LW+E	10.7	10.6	10.5	10.6	± 0.20	10.5	11.0	10.8	10.8	10.5   10.6 $\pm$ 0.20   10.5   11.0   10.8   10.8 $\pm$ 0.50   10.7 $\pm$ 0.39	10.7	+	33
LW+P+E	21.3	22.0	22.6	22.0	± 1.30	20.6	21.2	21.4	21.1	22.6 22.0 ± 1.30 20.6 21.2 21.4 21.1 ± 0.83 21.5 ± 1.39	21.5	+1	39
LW+N+E	10.6	10.5	10.6	10.6	± 0.12	11.9	12.3	10.3	11.5	10.6 10.6 $\pm$ 0.12 11.9 12.3 10.3 11.5 $\pm$ 2.12 11.0 $\pm$ 1.69	11.0	+1	69
LW+P+N+E	31.1	34.0	30.8	32.0	± 3.53	32.3	31.8	33.2	32.4	30.8 32.0 $\pm$ 3.53 32.3 31.8 33.2 32.4 $\pm$ 1.42 32.2 $\pm$ 2.46	32.2	+1	.46

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Before Processing	After Processing
Hd	7.8	7.9
Specific Conductance (umho cm ⁻¹ )	105	112
Total Kjeldahl Nitrogen (mg N 1-1)	0,39	0.45
$NH_3-N \ (mg \ N \ 1^{-1})$	<0.02	0.06
$NO_2^- + NO_2^ N \text{ (mg N 1}^-\text{I)}$	0.447	0,486
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.008	0.024
Total Phosphorus (mg P $1^{-1}$ )	0.043	0.042

TABLE G-11

ALGAL GROWTH POTENTIAL

Cycle 2 Station 16

Date Collected 4/2/79 Date Processed 4/4/79

					owth Res	ponse,	mg/l As	h-Free	Dry Wt.			
		12	12 Day Count		14 Day Count		14	Day Co	unt		, Overall	-all
		Replicate	٥			8	eplicat	e				
Treatment	1	2	3		$\bar{x} \pm 2\sigma$	1 2 3	2	3	$\dot{x} \pm 2\sigma$	ζq	x ± 20	2σ
LW	9.82	10.1	10.0	9.97	± 0.28	10.6	11.1	10.8	0.1 10.0 9.97 $\pm$ 0.28 10.6 11.1 10.8 10.8 $\pm$ 0.50 10.4 $\pm$ 1.01	0.50	10.4	1.01
LW+P	19.8	18.4	19.0	19.1	± 1.40	21.2	21.7	21.6	8.4   19.0   19.1 $\pm$ 1.40   21.2   21.7   21.6   21.5 $\pm$ 0.53   20.3 $\pm$ 2.83	0.53	20.3	2.83
TM+N	10.1	10.7	9.74	10,2	± 0.97	10.0	10.8	10.5	10.4 ±	0.81	10.3	0.85
LW+P+N	27.4	27.3	28.8	27.8	± 1.68	31.0	30.4	30.5	7.3 28.8 27.8 ± 1.68 31.0 30.4 30.5 30.6 ± 0.64 29.2 ± 3.27	0.64	29.2	3 27
LW+E	10.2	10.4	11.0	10.5	± 0.83	10.0	10.5	10.2	$0.4$ 11.0 10.5 $\pm$ 0.83 10.0 10.5 10.2 10.2 $\pm$ 0.50 10.4 $\pm$ 0.70	0.50	10.4	0.70
LW+P+E	19.6	21.1	21.3	20.7	± 1,86	19.0	20.5	21.6	1.1 21.3 20.7 $\pm$ 1.86 19.0 20.5 21.6 20.4 $\pm$ 2.61 20.5 $\pm$ 2.05	2 61	20.5	2 05
LW+N+E	10.4	10.1	9,58	10.0	± 0.83	10.7	10.4	11 0	10 7 ±	9	10 4	0 08
LW+P+N+E	28.6	8*62	30.6	29.7	± 2.01	29.9	32.1	31.4	9.8 30.6 29.7 ± 2.01 29.9 32.1 31.4 31.1 ± 2.25 30.4 ± 2.73	2.25	30.4	5.73

Background Water Quality

	P spike	N spike	EDTA spike
Water	[/bm	mg/l	mg/1
		1.00	
##	H	II	11
3	م	z	ш

Parameter and Units	Before Processing	After Processing
Hd	7.4	7.3
Specific Conductance (umho cm ⁻¹ )	117	120
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.61	0.62
NH ₃ -N (mg N 1-1)	0.02	0.02
$NO_2^- + NO_2^ N \text{ (mg N I}^-\text{I})$	0.658	0,542
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.024	0.024
Total Phosphorus (mg P $1^{-1}$ )	0.040	0.032

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TABLE G-13

## ALGAL GROWTH POTENTIAL

Cycle 2 Station 18

Date Collected 4/3/79 Date Processed 4/5/79

Growth Response, ma/l Ash-Free Drv Wt.

				Growtii Response, mg/ i Asii-rree Dry Mt.	respon	Se, III	SW 1/	יייייייייייייייייייייייייייייייייייייי	Ury WL.		
		12	12 Day Count				14	14 Day Count	unt	Overall	
		Replicate	a		Ц	Rei	) icat	В	-		
Treatment	1	2	2 3	× + 2σ		1	2	1 2 3	x ± 2σ	× ± 2σ	
LW	7.49		9.90	8.51 ± 2.	50 8	.44	3.34	8.49	8.42 ± 0.1	8.13 9.90 8.51 ± 2.50 8.44 8.34 8.49 8.42 ± 0.15 8.47 ± 1.58	28
LW+P	12.6	12.2	12.6	12.5 ± 0.	46 13	.6	1.6	13.1	12.8 ± 2.0	12.2   12.6   12.5 $\pm$ 0.46   13.6   11.6   13.1   12.8 $\pm$ 2.08   12.6 $\pm$ 1.39	39
LW+N	9.04	7.86	7.96	8.29 ± 1.	31 8	98.	3.83	8.72	8.80 ± 0.1	7.86 7.96 8.29 ± 1.31 8.86 8.83 8.72 8.80 ± 0.15 8.55 ± 1.01	01
LW+P+N	23.4	27.8	29.7	28.6 ± 1.	94 29	.9 2	6.9	27.3	28.0 ± 3.2	7.8 29.7 28.6 ± 1.94 29.9 26.9 27.3 28.0 ± 3.26 28.3 ± 2.49	49
LW+E	8.06		8.66	8.34 ± 0.	61 7	.71	3.31	8.67	$8.23 \pm 0.9$	8.29 8.66 8.34 $\pm$ 0.61 7.71 8.31 8.67 8.23 $\pm$ 0.97 8.28 $\pm$ 0.73	73
LW+P+E	13.3	11.8	13.1	12.7 ± 1.	63 13	0	2.8	11.8	12.5 ± 1.2	.8 13.1 12.7 ± 1.63 13.0 12.8 11.8 12.5 ± 1.29 12.6 ± 1.33	33
LW+N+E	7.75	7.71	8.44	$7.97 \pm 0.$	82 8	01.	3.18	8.46	8.25 ± 0.3	7.71 8.44 7.97 ± 0.82 8.10 8.18 8.46 8.25 ± 0.38 8.11 ± 0.65	65
LW+P+N+E	30.8	29.9	27.9	29.5 ± 2.	97 31	5 2	9.5	28.1	29.7 ± 3.4	29.9 27.9 29.5 ± 2.97 31.5 29.5 28.1 29.7 ± 3.42 29.6 ± 2.87	87

Background Water Quality

LW = Lake Water
P = 0.05 mg/1 P spike
N = 1.00 mg/1 N spike
E = 1.00 mg/1 EDTA spike
Specific Cond

Parameter and Units	Before Processing	After Processing
Нф	7.8	7.3
Specific Conductance (umho cm ⁻¹ )	101	115
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.58	0.62
$NH_{3}-N \pmod{N}$	<0.02	0.02
$NO_2 + NO_2 - N \text{ (mg N 1}^{-1}\text{)}$	0.280	0,329
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.008	0.019
Total Phosphorus (mg P $1^{-1}$ )	0.047	0.041

TABLE G-2a

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ALGAL GROWTH POTENTIAL

Station 6 Cycle 4

Date Collected 7/18/79 Date Processed 7/19/79

					Growth Response, mg/1 Ash-Free Ory Wt.	ponse,	mg/l As	h-Free	Ory Wt.		
		12	12 Day Count				14	14 Day Count	unt		Overall
		Replicate	e			œ	Replicate	9			
Treatment	1	2	3	١×	$\vec{x} \pm 2\sigma$	1	2	3	+1 1×	x ± 20	$x \pm 2\sigma$
LW	8.99	7.87	9.38	8.75	±1.57	8.27	8.93	9.34	8.85	± 1.08	.87 9.38 8.75 ±1.57 8.27 8.93 9.34 8.85 ± 1.08 8.81 ± 1.18
LW+P	14.0	13.0	14.2	13.7	±1.29 11.7	11.7	13.1	12.4	12.4	± 1.40	12.4 ± 1.40   13.1 ± 1.89
LW+N	9.78	8.73	8.73 10.0	9.50	9.50 ±1.36 9.63 10.5	9.63	10.5	8.67	9.60	8.67 9.60 ± 1.83	9,55 ± 1,45
LW+P+N	27.4	30.7 31.1		29.7	±4.06 26.6 31.8	26.6	1	30.0	29.5	± 5.28	± 5.28 29.6 ± 4.22
LW+E	8.34	8.99		8,70	8.78 8.70 ±0.66 8.16 8.52	8.16	8.52	8.02		8.23 ± 0.52	8.47 ± 0.74
LW+P+E	8.89	9.31	8.51	8.90	8.90 ±0.80 9.31 8.99	9.31	8.99	8.93	80.6	8.93   9.08 ± 0.41	8.99 ± 0.60
LW+N+E	9.04	9.26	9.49		9.26 ±0.45	7.74	7.74 7.27 7.99	7.99	7.67	7.67 ± 0.73	$8.47 \pm 1.83$
LW+P+N+E	28.2	27.9	30.7	28.9	±3.07	29.4	33.4	30.9	31.2	± 4.04	.9 30.7 28.9 ±3.07 29.4 33.4 30.9 31.2 ± 4.04 30.1 ± 4.08

Background Water Quality

After

Before

.m = Lake water 0 = 0.05 mg/l P spike 1 = 1.00 mg/l N spike 1 = 1.00 mg/l EDTA spike	Parameter and	рН	Specific Cond	
2	A = Lake Water	= 0.00 mg/l P spike = 1.00 mg/l N spike	= 1.00 mg/l EDTA spike	

Parameter and Units	Processing	Processing
Hd	6*9	6.9
Specific Conductance ( $\mu mho cm^{-1}$ )	77	80
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.43	0.47
$NH_3-N \ (mg \ N \ 1^{-1})$	0.05	0.04
$NO_2 + NO_3 - N \text{ (mg N 1}^1\text{)}$	0.27	0.33
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.009	0.021
Total Phosphorus (mg P $1^{-1}$ )	0.059	0.048

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TABLE G-2b ALGAL GROWTH POTENTIAL

Cycle 4 Station 7

Date Collected 7/18/79 Date Processed 7/19/79

					vth Res	Growth Response, mg/l Ash-Free Dry Wt.	mg/1 As	h-Free	Dry Wt			
		12	12 Day Count				F	14 Day Count	unt		څ	Overall
		Replicate	ē				Renlicate	1				
Treatment	-1	2	3	x ± 2σ	2σ		2	3	١×	× ± 2σ	l×	x + 2a
LV.	6.65	6.68	6.37		0.34	6.57 ± 0.34 6.44	6.74		6.73	7.02 6.73 ± 0.58		6.65 + 0.46
LW+P	14.4	13.6	13.5	13.8	0.99	13.8 ± 0.99 15.0	14.0	14.5	14.5	14.5 ± 1.00 14.2	14.2	+ 1.15
LW+N	6.15	6.33	5.52		0.85	6.00 ± 0.85 6.94	6.61	6.45		6.67 ± 0.50	6.35	6.35 ± 0.89
LW+P+N	29.8	27.1	32.2	29.7 ± 5.10 29.8	5.10	1	35.6	32.2		32.5 ± 5.83 31.1 ± 5.80	31.1	+ 5.80
LN+E	6.88	6.91	6.72	6.84 ± 0.20 6.87	0.20		5.82	7		6.30 ± 1.06	6.57	6.57 ± 0.90
LW+P+E	15.1	17.1	15.6	15.9 ± 2.08 15.0	2.08	15.0	1	13.4		13.8 ± 2.04 14.9 ± 2.95		± 2.95
LW+N+E	6.83	6.09	<b>6.57</b>	6.50	6.50 ± 0.75	5.15	6.77	6.02	5.98	5.98 ± 1.62	6.24	6.24 ± 1.26
LW+P+N+E	32.1	33.5	.5 30.5	32.0 ± 3.00 38.4 35.9 38.6 37.6 ± 3.00 34.8 + 6.70	3.00	38.4	35.9	38.6	37.6	+ 3.00	34.8	+6.70

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Processing	Processing
рН	7.1	7.1
Specific Conductance (umho cm ⁻¹ )	79	82
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.52	0.62
$NH_3-N \ (mg \ N \ 1^{-1})$	90.08	0.07
$NO_2 + NO_3 - N \text{ (mg N I}^{-1}\text{)}$	0.27	0.32
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0,005	0.015
Total Phosphorus (mg P $1^{-1}$ )	0.053	0.056

TABLE G-2c

ALGAL GROWTH POTENTIAL

Cycle 4 Station 9

Date Collected 7/17/79 Date Processed 7/19/79

				Gro	Growth Response, mg/l Ash-Free Dry Wt.	ponse,	mg/1 As	h-Free	Dry Wt			
		12	12 Day Count	unt			14	14 Day Count	unt		000	Overall
		Replicate	9				Replicate	a	·			
Treatment	1	2	3	١×	$x \pm 2\sigma$	1	2 3	3	١×	× ± 2σ	١×	x ± 20
LW	5,43	5.04	3,98	4.82	.04 3.98 4.82 ± 1.50 6.11 5.22 5.27 5.53 ±1.00 5.17 ±1.39	6.11	5.22	5.27	5,53	± 1.00	5.17	±1,39
LW+P	8.71	7.83	10.5	9.01	.83 10.5 9.01 $\pm 2.72$ 11.7 11.2 11.1 11.3 $\pm 0.64$ 10.2 $\pm 3.10$	11.7	11.2	11.1	11,3	± 0,64	10.2	±3,10
N+MT	5.81	4.37	5,16	5.11	.37 5.16 5.11 ± 1.44 6.09 6.35 5.06 5.83 ± 1.36 5.47 ± 1.48	6.09	6.35	5.06	5.83	±1,36	5,47	±1.48
LW+P+N	29.5	30.7	27.2	29.1	.7 27.2 29.1 ± 3.56 29.0 27.3 30.6 29.0 ± 3.30 29.1 ± 3.07	29.0	27.3	30.6	29.0	±3.30	29.1	±3.07
LW+E	5.78	6.44	5.87	6.03	3.44 5.87 6.03 ± 0.72 6.89 6.30 6.60 6.60 ± 0.59 6.31 ± 0.85	6.83	6.30	6.60	6.60	±0.59	6,31	±0,85
LW+P+E	12.6	12.3	10.5	11.8	.3 10.5 11.8 ±2.27 8.46 8.93 11.5 9.63 ±3.27 10.7 ±3.46	8.46	8.93	11.5	9.63	±3.27	10.7	±3.46
LW+N+E	6.20	3,54	5.89	5.21	.54 5.89 5.21 ±2.91 6.15 4.79 5.46 5.47 ±1.36 5.34 ±2.05	6.15	4.79	5.46	5.47	±1,36	5.34	±2.05
3+N+d+M7	37.3	30.8	30,3	32.8	30,8 30,3 32,8 ±7,81 38,1 34,2 35,8 36,0 ±3,92 34,4 ±6,56	38.1	34.2	35.8	36.0	±3.92	34.4	±6.56

Background Water Quality

Processing

Before

:	Parameter and Units	Processin
spike spike	Hd	7.4
JTA spike	Specific Conductance ( $\mu$ mho cm ⁻¹ )	80
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	09.0
	NH ₃ -N (mg N 1-1)	0.02
	$NO_2 + NO_2 - N \text{ (mg N 1}^{-1}\text{)}$	0.15
	Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.013
	Total Phosphorus (mg P $1^{-1}$ )	0.040

0.045

0.21

0.04

TABLE G-2d

ALGAL GROWTH POTENTIAL

Cycle 4 Station 10

Date Collected 7/17/79 Date Processed 7/19/79

Growth Response, mg/l Ash-Free Dry Wt.

					WIN KES	Growth Response, mg/! Asn-ree Ury Wt.	mg/ I AS	n-rree	υry ₩c.			
		12	12 Day Count	unt			14	14 Day Count	unt		006	Overall
		Replicate	e			<b>*</b>	Replicate	Ь			١	
Treatment	-	2	3	)×	$\bar{x} \pm 2\sigma$	1	- 2	3	$x \pm 2\sigma$	2σ	×	x ± 2σ
r.	4.43	3.57	4.64		4.21 ± 1.13   4.06	4.06	4.46 3.76	3.76	4.09 ± 0.70	0.70	4.15 ± 0.85	±0.85
LW+P	8.46	8.29	7.99		8.25 ± 0.48	8.80	8.54	8.15	8.50 ± 0.65	0.65		8:37 ±0.58
LW+N	4.13	4.02	4.09	ı	4.08 ± 0.11	4.47	4.07	4.06	4.20 ± 0.48	0.48	4.14 ±0.33	±0.33
Ntaini	24.8	27.5	25.3	25.9	25.9 ± 2.87   22.9		28.5	27.6	26.3 ± 6.01 26.1 ± 4.25	6.01	26.1	±4.25
LW+E	3.22	3.20	4.02		3.48 ± 0.94 4.37	4.37	4.80	4.07	4.41 $\pm$ 0.73 3.95 $\pm$ 1.27	0.73	3.95	±1.27
LW+P+E	9.37	8.35	8.91		8.88 ± 1.02	9.38	6.33	8.93	$8.21 \pm 3.29$	3.29	8.55	8.55 ±2.30
LW+N+E	3.99	4.70	3.74		$4.14 \pm 1.00$	3.13	4.48	3,33	3.65 ± 1.46	1.46	3.09	3.09 ±1.24
LW+P+N+E	26.8	25.1	26.5	26.1	26.5 26.1 ± 1.81 24.6	24.6	33.1	25.9	27.9 ± 9.16   27.0 ± 6.20	9.16	27.0	±6.20

Background Water Quality

Para		티	Spec
= Lake Water	= 0.05  mg/l P spike		= 1.00 mg/l E0TA spike
3	<u>a</u>	z	ш

Parameter and Units	Before Processing	After Processing
HO	8.0	8.2
Specific Conductance (umho cm ⁻¹ )	80	85
Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0,91	0.53
NH3-N (mg N 1-1)	0.01	0.06
NO, + NO, - N (mg N 1 1)	0.11	0.16
Dissolved Ortho-phosphate (mq P 1 ⁻¹ )	900.0	0.00
Total Phosphorus (mq P $1^{-1}$ )	0.042	0.035

TABLE G-2e ALGAL GROWTH POTENTIAL

Cycle 4 Station 11

Date Collected 7/17/79 Date Processed 7/19/79

Growth Response, mg/l Ash-Free Dry Wt.

					אנו אני	drowell response, mg/ I Ash-rree ory Wt.	1 / W	ו-נושב	Dry Mr.			
		12	12 Day Count	unt			14	14 Day Count	unt		0veral	rall
		Septicate	9			۲	Replicate	9				
Treatment	1	2	3	$\bar{x} \pm 2\sigma$	- 2σ	1	1 2 3	3		x ± 2σ	İ×	x ± 20
LW	3.85	3.89	3.69	3.81	± 0.21	3.69 3.81 ± 0.21 4.20 3.46 2.97 3.54 ± 1.24 3.68 ± 0.85	3.46	2.97	3.54	± 1.24	3.68	± 0.85
LW+P	6.79	5.62	6.72	6.38	± 0,31	6.72 6.38 $\pm$ 0.31 8.83 7.16 6.25 7.41 $\pm$ 2.62 6.90 $\pm$ 2.17	7.16	6.25	7.41	± 2.62	6.90	± 2.17
LW+N	3.82	3.98		3.77	± 0.49	3.50 3.77 $\pm$ 0.49 4.23 3.31 4.07 3.87 $\pm$ 0.98 3.82 $\pm$ 0.70	3.31	4.07	3.87	± 0.98	3.82	± 0.70
LW+P+N	26.7	28.8	32.6	29.4	± 5.98	32.6 29.4 ± 5.98 25.2 26.3 29.0 26.8 ± 3.91 28.1 ± 5.30	26.3	29.0	26.8	± 3.91	28.1	± 5.30
LN+E	3,52	3.43		3,38	± 0.35	3.18 3.38 $\pm$ 0.35 3.46 2.51 3.22 3.06 $\pm$ 0.99 3.22 $\pm$ 0.75	2.51	3.22	3.06	± 0.99	3.22	± 0.75
LW+P+E	5.01	6.75	6.47	6.08	± 1.87	6.08 ± 1.87 7.21 9.05 9.36 8.54 ± 2.32 7.31 ± 3.29	9.05	9.36	8.54	± 2.32	7.31	± 3.29
LW+N+E	4.07	3.92	3.80	3.93	3.93 ± 0.27	3.59	4.14	4.14 2.08	3.27	3.27 ± 2.13 3.60 ± 1.54	3.60	± 1.54
LW+P+N+E	27.1	21.8	28.2	25.7	± 6.84	28.2 25.7 $\pm$ 6.84 21.1 17.8 24.3 21.1 $\pm$ 6.50 23.4 $\pm$ 7.84	17.8	24.3	21.1	± 6.50	23.4	= 7.84

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spik

Parameter and Units	berore Processing	Atter Processing
Н	7.8	7.8
Specific Conductance ( $\mu mho cm^{-1}$ )	92	96
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.58	0.54
$NH_3-N \ (mg \ N \ 1^{-1})$	0.01	0.04
$NO_2 + NO_3 - N \text{ (mg N 1}^3)$	0.18	0.33
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.00	0,009
Total Phosphorus (mg P $1^{-1}$ )	0.035	0.030

TABLE G-2f

# ALGAL GROWTH POTENTIAL

Cycle 4 Station 12

Date Collected 7/18/79 Date Processed 7/19/79

Growth Response, mg/l Ash-Free Ory Wt.

		61	12 Day Count	int			tango ved V		I Change 11
		77	טמא כט	anc		1	Day CD		Overail
		Replicate	a			Replicate	e		
Treatment	1	2	3	x ± 2a	1	2 3	3	x ± 20	$\overline{x} \pm 2\sigma$
LW	1.56	1.	74	$1.65 \pm 0.25$ $1.60$ $1.64$ $1.62 \pm 0.06$ $1.64 \pm 0.15$	1.60	1.64	•	1.62 ± 0.06	1.64 ± 0.15
TM+P	1.29	1.	1.74	81 1.74 1.61 $\pm$ 0.56 1.21 1.37 1.38 1.32 $\pm$ 0.19 1.47 $\pm$ 0.50	1.21	1.37	1.38	$1.32 \pm 0.19$	1.47 ± 0.50
TM+N	2.51	1.60	1.30	60 1.30 1.80 ± 1.26 1.58 1.41 1.06 1.35 ± 0.53 1.58 ± 1.00	1.58	1.41	1.06	1.35 ± 0.53	1.58 ± 1.00
LW+P+N	26.4	23.1	24.4	1 24.4 24.6 ± 3.32 28.3	28.3	-	-	28,3 ± 0,00 25,6 ± 4,56	25.6 ± 4.56
LW+E	1.82	1,33	1.57	33 1.57 1.57 $\pm$ 0.49 1.08 1.65 1.32 1.35 $\pm$ 0.57 1.46 $\pm$ 0.54	1.08	1.65	1.32	$1.35 \pm 0.57$	1.46 ± 0.54
LW+P+E	1.90	1.43	1.56	1.56 1.63 ± 0.49 2.03	2.03		1.10	1.10 1.57 $\pm$ 1.32 1.60 $\pm$ 0.75	1.60 ± 0.75
LW+N+E	1.81	1.70	1.63	70 1.63 1.71 $\pm$ 0.18 1.74 1.50 1.21 1.48 $\pm$ 0.53 1.60 $\pm$ 0.44	1.74	1.50	1.21	$1.48 \pm 0.53$	1.60 ± 0.44
LW+P+N+E	23.7	26.2	24.9	2 24.9 24.9 ± 2.50 21.2 22.5 23.3 22.3 ± 2.12 23.6 ± 3.52	21.2	22.5	23.3	22.3 ± 2.12	23.6 ± 3.52
									ø

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l E DTA spike
Specific

	Before	After
Parameter and Units	Processing	Processing
Hd	7.4	7.4
Specific Conductance ( $\mu mho cm^{-1}$ )	84	86
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	65.0	0.38
$NH_2-N \ (mg \ N \ 1^{-1})$	90.0	0.03
NO, + NO, - N (mg N 1 1)	0.014	0.017
Dissolved Ortho-phosphate (mq P 1-1)	0.005	0.004
Total Phosphorus (mg P $1^{-1}$ )	0.021	0.023

TABLE G-29

. . . . .

ALGAL GROWTH POTENTIAL

Cycle 4 Station 13

Date Collected 7/16/79 Date Processed 7/18/79

Growth Response, mg/l Ash-Free Dry Wt

		12	12 Day Count	unt 14 Day Count		F	14 Day Count	unt	Overall
		<b>Keplicat</b>	9			Replicate			
Treatment	1	2	3	$\overline{x} \pm 2\sigma$	1	- 5	ŝ	x ± 20	x ± 20
LW	3.02	2.56	2.52	2.52 2.70 ± 0.56	2.56	1.52 1.81	1.81	1.97 ± 1.10	2.34 ± 1.11
LW+P	8.43	9,58	68.9	8.30 ± 2.70 11.1	11.1	8.38	6.37	8.62 ± 4.75	8.46 ± 3.47
LW+N	2.73	2.73	1.63	1.63 2.36 ± 1.27 2.66 2.54	2.66	2.54	2.61	2.60 ± 0.12	2.48 ± 0.85
LW+P+N	17.4	23.3	19.4	19.4   20.0 ± 6.00   12.7   13.5	12.7		10.3	12.2 ± 3.33 16.1 ± 9.64	16.1 ± 9.64
LW+E	1.86	2.92	92 2.05	2.28 ± 1.13 2.86	2.86	2.78	2.77	1 1	2.80 ± 0.10 2.54 ± 0.92
LW+P+E	9.98	11.6	10.6	$10.7 \pm 1.63$	8.67	10.1	6.99	8.59 ± 3.11	9.66 ± 3.23
LW+N+E	2.96	2.97	2.50	2.81 ± 0.54	2.19	3.11	2.40	$2.57 \pm 0.96$	2.69 ± 0.75
LW+P+N+E	24.3	26.3	24.5	24.5   25.0 ± 2.20   23.1	23.1	1	26.1	24.6 ± 4.24 24.9 ± 2.67	24.9 ± 2.67

Background Water Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Before Processing	After Processing
Н	8.4	8.3
Specific Conductance (umho cm ⁻¹ )	140	146
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.40	0.39
NH_3 -N (mg N 1 ⁻¹ )	90°0	0.03
$NO_2 + NO_3 - N \text{ (mg N I}^{-1}\text{)}$	0.22	0.22
Dissolved Ortho-phosphate (mg P 1 ⁻¹ )	0.005	0.006
Total Phosphorus (mg P $1^{-1}$ )	0.039	0.031

TABLE G-2h

ALGAL GROWTH POTENTIAL

Date Collected 7/16/79 Date Processed 7/18/79

Sycle 4 Station 14

1,27 ± 0,16 ± 2,83 x ± 20 Overal 1.53 15.8 23.8 ± 1.42 ± 3.03  $1.28 \pm 0.25$ ± 5.30  $\pm$  0.14  $1.46 \pm 0.21$ ± 0.27 2α 1,27 Growth Response, mg/l Ash-Free Dry Wt 1.61 23.9 16.4 1.58 1.46 1.41 17.8 24.5 14.3 22.2 1.40 1.28 11.9 25.0 17.3 19.4 1.16 1.65 1.39 1.19 15.6 24.6 27.6 16.4 ± 1.61 ± 4.18 23.7 ± 3.12 1.26 ± 0.06  $1.44 \pm 0.50$ ± 6.23  $1.19 \pm 0.27$ × + 20 17.5 1.21 15.1 25.9 2 Day Count 1.33 1.26 1.22 1.12 15.0 25.5 16.1 26.2 Replicate 1.19 1.39 1.29 1.17 16.5 16.0 22.9 28.8 1.06 1.23 1.71 19.9 22.6 14.4 22.7 reatment LW+P+N+E 3+d+M7 LW+P+N LW+N+E LW+P N+M LE+N LW+E

Background Water Quality

After

Before

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Processing	Processing
Hd	8.0	8.0
Specific Conductance (umho cm ⁻¹ )	185	190
Total Kjeldahl Nitrogen (mg N 1-1)	09.0	0.34
$NH_2-N \ (mg \ N \ 1^{-1})$	*	0.01
NO, + NO, - N (mg N 1-1)	0.34	0.40
Dissolved Ortho-phosphate (mq P 1-1)	0.003	0.003
Total Phosphorus (mg P $1^{-1}$ )	0.018	0.021

*Sample Results unreliable.

ALGAL GROWTH POTENTIAL TABLE G-21

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7/18/79	
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7/16/79	
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Station 15

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		12	12 Day Count	1 1		14	14 Day Count	unt	Overall
	<b>P</b>	Ren Cate	ا			Replicate	a		
Treatment	-	2	3	$\overline{x} \pm 2\sigma$	1	2 3	3	x ± 20	x ± 2σ
רא	7.62	7.45	8.08	7.45 8.08 7.72 ± 0.65	7.09		•	7.09 ± 0.00	7.09 ± 0.00   7.56 ± 0.82
LW+P	15.8	15.9	17.3	16.3 ± 1.68	15.1	11.9	13.2	17.3 16.3 ± 1.68 15.1 11.9 13.2 13.4 ± 3.22 14.9 ± 3.95	14.9 ± 3.95
LW+N		7.29	i.	7.29 ± 0.00		8.73	- 1	8.73 ± 0.00	8.73 $\pm$ 0.00 8.01 $\pm$ 2.04
LW+P+N	29.8	27.7	29.6	29.0 ± 2.32	31.6	33.0	35.0	29.6 29.0 ± 2.32 31.6 33.0 35.0 33.2 ± 3.42 31.1 ± 5.26	31.1 ± 5.26
LW+E	7.62	6.86	7.65	7.38 ± 0.90	8.39	92.9	7.42	7.65 7.38 ± 0.90 8.39 6.76 7.42 7.52 ± 1.64 7.45 ± 1.19	7.45 ± 1.19
LW+P+E	15.7	16.3	15.5	15.5 15.8 ± 0.83 14.4	14.4	14.6	19.3	19.3 16.1 ± 5.55 16.0 ± 3.56	16.0 ± 3.56
LW+N+E	7.38	7.29	7.83	7.83 7.50 ± 0.58 8.33	8.33		9.31	8.82 ± 1.39	8.03 ± 1.65
LW+P+N+E	31.6	30.8	31.6	0.8 31.6 31.3 ± 0.92 27.7	27.7		1	27.7 ± 0.00	27.7 ± 0.00   30.4 ± 3.71

Background Water Quality

ocess ing

		Before	After
	Parameter and Units	Processing	Processi
	Hd	8.0	8.4
ike	Specific Conductance ( $\mu mho cm^{-1}$ )	133	138
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.48	0.43
	$NH_3-N \ (mg \ N \ 1^{-1})$	*	0.05
	$NO_2^- + NO_2^ N \text{ (mg N 1}^-\text{)}$	0.33	0.36
	Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.017	0.017
	Total Phosphorus (mg P $1^{-1}$ )	0.067	0.029
	والمرازي والمنزون والمراز وراي والفراجة بالإين والمراز والمائن والمائن والمائن والمائن والمائن والمائن والمائن		

^{*}Sample Results unreliable.

TABLE G-2j ALGAL GROWTH POTENTIAL

Date Collected 7/16/79 Date Processed 7/18/79

91
Station
4
Cycle

				Ē	Growth Response, mg/i Ash-Free Dry Wt.	ponse, 1	mg/i Asl	n-Free	Ory Mt.				l
		12	12 Day Count	,			14	14 Day Count	unt		Ove	Overall	
		Ren Icate	٩			R	Replicate	Q.			ı		
Treatment	_	~	3	۱×	× ± 2σ	1	2	3	×	$x \pm 2\sigma$	×	× ± 2σ	1
LW	14.9	14.3	14.6	14.6	14.6 ± 0.60	9.45	7.76	5.61	7.61	7.76 5.61 7.61 ± 3.85	11.1 ± 8.05	+ 8.	اي
TN+P	24.5	23.9	26.5		25.0 ± 2.72					+1	25.0 ± 2.72	± 2.	2
LW+N	13.5	14.0	13.7	13.7	13.7 ± 0.50	9.73	8.34		9.04	$9.04 \pm 1.97$	11.9 ± 5.25	+ 5	اي
N+d+M7	32.4	36.9	37.1	35.5	35.5 ± 5.32	:	-	1		+	35.5 ± 5.32	± 5.	2
LN+E	13.8	13.2	12.3	13.1	13.1 ± 1.51 2.86	2.86	5.44 3.68	3.68		3.99 ± 2.64	8,55 ± 10.2	± 10	2
LW+P+E	22.4	21.5	24.6	22.8	22.8 ± 3.19 11.0 16.6 17.5	11.0	16.6	17.5	15.0	15.0 ± 7.04 18.9 ± 9.84	18.9	÷ 9.	4
LW+N+E	15.9	15.5	15.7	15.7	15.7 ± 0.40	1		16.2	16.2	$16.2 \pm 0.00$ $15.8 \pm 0.60$	15.8	0 +1	اي
LW+P+N+E	43.0	35.0	34.6	37.5	34.6 37.5 ± 9.48 14.8 14.8 10.7 13.4 ± 4.73 23.7 ± 28.8	14.8	14.8	10.7	13.4	± 4.73	23.7	± 28	<b>ω</b>

Background Water Quality

		Before	After
	Parameter and Units	Processing	Processing
pike jike	Ha	7.7	7.8
A spike	Specific Conductance (umho cm ⁻¹ )	110	115
J	Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.33	0.34
<b></b>	NH3-N (mq N 1-1)	0.02	0.04
	NO, + NO, - N (mg N 1-1)	0.53	0.55
<u></u>	Discolved Ortho-phosphate (mg P 1-1)	0.030	0.032
<u> </u>	Total Phosphorus (mq P $1^{-1}$ )	0.052	0.061

TABLE G-2k

ALGAL GROWTH POTENTIAL

Station 18 Cycle

Date Collected 7/17/79 Date Processed 7/19/79

•				Growth Response, mg/! Asa-Free Ury Wt.	ponse,	mg/ I AS	n-rree	Dry Wt.			
		12	12 Day Count			14	14 Day Count	unt		0ve	Overall
	~	Replicate	a			Replicate	ď				
Treatment	1	2 3	3	$\overline{x} \pm 2\sigma$	1	2	3	x ± 2a		$\bar{x} \pm 2\sigma$	2σ
LW	3.64	4.99	3.82	.99 3.82 4.15 ± 1.47 4.89 3.81 4.05 4.25 ± 1.13 4.20 ± 1.18	4.89	3.81	4.05	4.25 ± 1.	.13	4.20	± 1.18
LW+P	10.6	10.8	10.8	10.8   10.7 ± 0.23   10.4		11.1	6.73	$6.73 \mid 9.41 \pm 4.69 \mid 10.1 \pm 3.31$	69	10.1	± 3,31
LW+N	96.4		5.40	5.30 5.40 5.22 $\pm$ 0.46 5.01 5.29 5.30 5.20 $\pm$ 0.33 5.21 $\pm$ 0.36	5.01	5.29	5.30	5.20 ± 0.	,33	5.21	± 0.36
LW+P+N	26.3	27.4	29.8	29.8 27.8 ± 3.58 28.4 25.5 23.5 25.8 ± 4.93 26.8 ± 4.44	28.4	25.5	23.5	25.8 ± 4.	.93	26.8	± 4.44
LW+E	<b>6.87</b>	5.81	5.77	5.77 6.15 $\pm$ 1.25 5.14 5.73 4.51 5.13 $\pm$ 1.22 5.64 $\pm$ 1.57	5.14	5.73	4.51	5.13 ± 1.	.22	5.64	± 1.57
LW+P+E	11.7	7.6		11.8 10.4 $\pm$ 4.79 6.85 13.8 14.9 11.9 $\pm$ 8.73 11.1 $\pm$ 6.50	6.85	13.8	14.9	11.9 ± 8.	.73	11.1	± 6.50
LW+N+E	6,10	5.31	4.73	4.73 5.38 ± 1.38 5.25	5.25		4.52	5.16 4.52 4.98 $\pm$ 0.80 5.18 $\pm$ 1.10	80	5.18	± 1.10
LW+P+N+E	31.3	30.3	29.8	29.8 30.5 ± 1.53	24.7			24.7 ± 0.00 29.0 ± 5.90	00	29.0	₹ 5.90

Background Water Quality

2 + · · · · · · · · · · · · · · · · · ·	Drocesing	Processing
רמו מוום סוום סווים	1 00033 1113	51116
Hd	7.4	7.5
Specific Conductance (umho cm ⁻¹ )	110	115
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.51	0.34
NH3-N (mg N 1-1)	0.02	0.05
$NO_2 + NO_3 - N \text{ (mg N 1}^1\text{)}$	0.21	0.24
Dissolved Ortho-phosphate (mg P 1-1)	0.007	0.013
Total Phosphorus (mg P 1-1)	0.042	0.049

TABLE G-3a ALGAL GROWTH POTENTIAL

vole 6 Station 6

Date Collected 9/26/79 Date Processed 9/27/79

				Gre	Growth Response, mg/! Ash-rree Ury Wt.	ponse,	mg/ I ASI	n-rree	Ury Wt.	
		12	12 Day Count				14	14 Day Count	unt	Overall
		Replicate	a				Replicate	9	1	١
Treatment	-	リい	3	١×	× ± 2σ	1	2	3	$x \pm 2\sigma$	x ± 20
LW	0.91	0	0.18	0.57	± 0.74	1.01	0.94	0.10	0.68 ± 1.01	$63  0.18  0.57  \pm  0.74  1.01  0.94  0.10  0.68  \pm  1.01  0.63  \pm  0.80$
LW+P	0.23	0.35	0.36	0.32	± 0.14	0.26	0.56	0.37	$0.40 \pm 0.31$	$0.36 \ 0.32 \pm 0.14 \ 0.26 \ 0.56 \ 0.37 \ 0.40 \pm 0.31 \ 0.36 \pm 0.23$
LW+N	0.45	1.09	0.27	0.61	0.27 0.61 ± 0.86 0.24 0.33	0.24	0.33	ì	$0.28 \pm 0.09$	$0.27  0.28 \pm 0.09  0.44 \pm 0.65$
LW+P+N	0.10	0.27	8.54	2.97	8.54 2.97 ± 9.66 0.17 0.27	0.17	0.27	8.62	3.02 ± 9.70	8.62 3.02 $\pm$ 9.70 2.99 $\pm$ 8.65
LW+E	1.18	0.24	i i	0.54	0.20 0.54 ± 1.11 3.52 0.19	3.52	0.19	0.21	$1.31 \pm 3.83$	0.21 1.31 $\pm$ 3.83 0.92 $\pm$ 2.66
LW+P+E	5.78	0.24	8.15	4.72	8.15 4.72 ± 8.12 6.36 0.48	6.36	0.48	8.03	4.96 ± 7.94	8.03 $4.96 \pm 7.94$ $4.84 \pm 7.19$
LW+N+E	0.49	0.14		0.43	$0.67  0.43  \pm  0.54  0.27  0.11$	0.27	0.11	0.64	$0.34 \pm 0.54$	0.64 0.34 $\pm$ 0.54 0.39 $\pm$ 0.50
LW+P+N+E	27.2	21.0	0.79	16.3	0.79 16.3 ±27.6 21.2 17.5	21.2	17.5	5.68	14.8 ±16.2	5.68 14.8 ±16.2 15.6 ± 20.3

Background Water Quality

Processing 0.683*0.202 0.021 0.018 0.042 Processing Before 0.306 0.045 0.235 0.008 0.033 6.98 78. Total Kjeldahl Nitrogen (mg N 1⁻¹) Specific Conductance  $(\mu mho cm^{-1})$ Dissolved Ortho-phosphate (mg P Total Phosphorus (mg P 1-1)  $\frac{NH_3-N \ (mg \ N \ 1^{-1})}{NO_2^{-} + NO_3^{-} - N \ (mg \ N \ 1^{-1})}$ Parameter and Units H I P spike I N spike I EDTA spike

LW = Lake Water P = 0.05 mg/1 P N = 1.00 mg/1 N E = 1.00 mg/1 E

TABLE G-3b

ALGAL GROWTH POTENTIAL

Station 7

Cycle 6

9/26/79 Date Collected 9/25/79

Date Processed

Growth Response, ma/l Ash-Free Dry Wt.

				- 1	di Catil hespolise, iligi I Asil-i lee Di y Ht.	י שכווטת	2 - 72	- עע	J W	
		12	12 Day Count	unt			14	14 Day Count		Overall
		Replicate	9				Replicate	9		
Treatment	1	2	3	١×	$\dot{x} \pm 2\sigma$	.1	2 3	3	$\bar{x} \pm 2\sigma$	$x \pm 2\sigma$
LW	0.26	0.26	0.31	0.28	0.31 0.28 ± 0.06 0.18 0.19	0.18	0.19	0.11	$0.16 \pm 0.09$	0.11 0.16 $\pm$ 0.09 0.22 $\pm$ 0.14
LW+P	2.13	1.25		2.30	3.53 2.30 ± 2.29 2.91 2.27	2.91	2.27	4.09	3.09 ± 1.84	4.09 3.09 ± 1.84 2.70 ± 2.05
LW+N	0.26	0.23		0.22	0.18 0.22 ± 0.08 0.18 0.32	0.18	0.32	0.16	$0.22 \pm 0.17$	$0.16  0.22 \pm 0.17  0.22 \pm 0.12$
LW+P+N	0.18	0.12	0.24	0.18	$0.24 \mid 0.18 \pm 0.13 \mid 0.41 \mid 0.37$	0.41	0.37	0.42	$0.40 \pm 0.05$	$0.42  0.40 \pm 0.05  0.29 \pm 0.26$
LW+E	0.33	0.26	0.34	0.31	$0.34  0.31  \pm  0.08  0.30  0.23$	0.30	0.23	0.34	$0.29 \pm 0.11$	$0.34  0.29 \pm 0.11  0.30 \pm 0.09$
LW+P+E	0.26	0.13	3.30	1.23	3.30 1.23 ± 3.59 0.12 0.15	0.12	0.15	3.95	$1.41 \pm 4.40$	3.95 $1.41 \pm 4.40$ $1.32 \pm 3.60$
LW+N+E	0.23	0.24	0.25	0.24	0.25 0.24 ± 0.02 0.30 0.16	0.30	0.16	0.38	$0.28 \pm 0.22$	0.38 0.28 ± 0.22 0.26 ± 0.15
LW+P+N+E	0.73	92.0	0.22	0.57	0.22 0.57 ± 0.61 5.67 10.9	2.67	10.9	0.38	0.38 5.65 ±10.5	3.11 ± 8.70

Background Water Quality

1 P spike 1 N spike 1 EDTA spike

Parameter and Units	Processing	Processing
Hd	7.00	
Specific Conductance (umho cm ⁻¹ )	95.	
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.536	0.788*
$NH_3-N \ (mg \ N \ 1^{-1})$	0.069	0.057
$NO_2 + NO_2 - N \text{ (mg N 1}^{-1}\text{)}$	0.160	0.173
Dissolved Ortho-phosphate (mg P 1-1)	0.003	0.013
Total Phosphorus (mg P $1^{-1}$ )	0.029	0.028

ALGAL GROWTH POTENTIAL TABLE G-3c

O

Station 9 Cycle 6

Date Collected 9/25/79 Date Processed 9/26/79

Growth Response, ma/l Ash-Free Dry Mt

		12	12 Day Count		I Day Count	, , , ,	14	14 Day Count	unt	Overall	
		Replicate	e				Replicate	9			
Treatment	-	2	3	١×	$\bar{x} \pm 2\sigma$	1	1 2 3	3	$\bar{x} \pm 2\alpha$	$\overline{x} + 2\sigma$	Б
LW	0.21	0.44	0.35	0.33	± 0.23	0.55	0.33	0.40	44 0.35 0.33 ± 0.23 0.55 0.33 0.40 0.43 ± 0.23 0.38 ± 0.23	0.38 ±	0.23
LW+P	3.37	3.28	2.20	2.95	2.20 2.95 ± 1.30 4.70 3.16	4.70	3.16	2.27	2.27 3.37 ± 2.45 3.16 ± 1.82	3.16 ±	1.82
N+N	0.45	0.38	0.38	0.40	$0.38 \mid 0.40 \pm 0.08 \mid 9.36 \mid 0.45$	9.36	0.45	0.45	$0.45 \mid 0.42 \pm 0.10 \mid 0.41 \pm 0.08$	0.41 ±	0.08
LW+P+N	0.49	11.3	1	6.80	8.63 6.80 ±11.2 0.53 11.6	0.53	11.6	9.35	9.35 7.16 ±11.7	6.98 : 10.3	10.3
LW+E	0.39	0.47		0.43	0.43 0.43 ± 0.08 0.63 0.44	0.63	0.44	0.43	$0.43  0.50 \pm 0.22  0.46 \pm 0.17$	0.46 ±	0.17
LW+P+E	5.44	4.70		3.50	0.35 3.50 ± 5.50 6.05 5.13	6.05	5.13		0.48 3.89 ± 5.97 3.69 ± 5.15	3.69 ±	5.15
LW+N+E	0.35	0.40		0.37	0.37 ± 0.07 0.38 0.49	0.38	0.49		0.44 ± 0.15 0.40 + 0.12	0.40	0.12
LW+P+N+E	0.40	6.82		3.61	3.61 ± 9.07 0.34 8.09	0.34	8.09		4.21 ±11.0 3.91 ± 8.24	3.91	8.24

Background Mater Quality

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Before Processing	After Processing
Н	6.90	
Specific Conductance (umho cm ⁻¹ )	88.	
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.420	0.546*
NH ₂ -N (mg N 1 ⁻¹ )	0.108	0.120
$NO_2 + NO_2 - N \text{ (mg N 1}^1\text{)}$	0.093	0.092
Dissolved Ortho-phosphate (mg P 1-1)	0.005	0.019
Total Phosphorus $(mg P 1^{-1})$	0.029	0.040

TABLE G-3d ALGAL GROWTH POTENTIAL

Cycle 6 Station 10

Date Collected 9/25/79 Date Processed 9/26/79

					Growth Response, mg/1 Asn-rree Ury Wt.	ponse,	mg/1 AS	n-rree	Ury Wt.		1
		12	12 Day Count	unt			14	14 Day Count	unt	Overal1	
	<b>Y</b>	Replicate	a			Y	Replicate	e e			_
reatment	1	2	3	۱×	x ± 2a	1	2	3	x ± 20	$x \pm 2\sigma$	-1
LW	0.15	0.10	0.21	0.15	$0.21 \ 0.15 \pm 0.11 \ 0.16 \ 0.12 \ 0.39$	0.16	0.12	0.39	0.22 ± 0.29	٥	_
TM+P	1.87	0.72	0.57	1.06	$0.57 \mid 1.06 \pm 1.42 \mid 3.49 \mid 0.79$	3.49	0.79	89.0	$1.71 \pm 3.09$	1.38 ± 2.27	
LW+N	0.08	0.14		0.11	0.11 ± 0.09 0.16 0.15	0.16	0.15		$0.15 \pm 0.02$	$0.15 \pm 0.02$ $0.13 \pm 0.08$	
LW+P+N	2.88	1.14	2.07	2.03	2.07 2.03 ± 1.74 10.5	10.5	1.77	4.68	5.63 ± 8.84	3.83 ± 6.93	
LW+E					+1				+1	+1	
LW+P+E					+;			1	+1	+1	
LW+N+E					+1				+1	+1	
LW+P+N+E	-				+!	1			+1	+1	

Background Water Quality

		Before	After
	Parameter and Units	Processing	Processing
	рн	7.00	
spike	Specific Conductance (umho cm ⁻¹ )	85.	
	Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.364	0.578*
	$NH_3-N \ (mg \ N \ 1^{-1})$	0.095	0.093
	$NO_2 + NO_3 - N \text{ (mg N 1}^{-1}\text{)}$	0.085	0.085
	Dissolved Ortho-phosphate (mg P 1 1)	0.006	0.018
	Total Phosphorus (mg P $1^{-1}$ )	0.044	0.041

TABLE G-3e

ALGAL GROWTH POTENTIAL

Cycle 6 Station 11

Date Collected 9/25/79 Date Processed 9/26/79

Grewth Response, mo/l Ash-Free Dry Wt.

				5	פרנישניו הפצטטווסב, וויש/ו מאוו-ווכב טול שבי	DOUGE,	164 - /hii	ו בע	ULY MIL.	
		12	12 Day Count	unt			14	14 Day Count	unt	Overall
		Replicate	9			R	Replicate	a		1
Treatment	-	2	3	۱×	×	1	2	3	x ± 2σ	x ± 2σ
۲M	0.08	0.27	0.25	0.20	$0.25  0.20  \pm  0.21  0.11  0.21$	0.11	0.21	0.23	$0.18 \pm 0.13$	0.23 0.18 ± 0.13 0.19 ± 0.15
LW+P	0.38	0.22	0.19	0.26	0.19 0.26 ± 0.21 0.27 0.21	0.27	0.21	0.21	$0.23 \pm 0.06$	$0.21  0.23 \pm 0.06  0.25 \pm 0.14$
LW+N	0.25	0.16	0.21	0.21	0.21 0.21 ± 0.09 0.12 0.14	0.12	0.14	0.15	$0.14 \pm 0.03$	$0.15$ $0.14 \pm 0.03$ $0.17 \pm 0.10$
LW+P+N	0.28	0.84	1	0.61	0.71 0.61 ± 0.58 0.51 0.63	0.51	0.63	99.0	$0.60 \pm 0.16$	$0.66  0.60 \pm 0.16  0.60 \pm 0.38$
LW+E	0.19	0.24		0.21	0.21 ± 0.07 0.76 0.17	0.76	0.17		$0.40 \pm 0.83$	0.40 ± 0.83 0.34 ± 0.56
LW+P+E	1	2 - 1			+1		1 - 1	:	+1	+1
LW+N+E	:				+1		-		+1	+1
LW+P+N+E	0.42	o	0.98	0.63	49 0.98 0.63 ± 0.61 0.44 0.24	0.44	0.24	96.0	$0.55 \pm 0.74$	0.96 0.55 ± 0.74 0.59 ± 0.61
		A								

Background Water Quality

		Before	After
	Parameter and Units	Processing	Processing
spike spike	F4	7.10	
DTA spike	Specific Conductance (umho cm ⁻¹ )	93.	
	Total Kjeldahl Nitrogen (mg N 1-1)	0.260	0.300*
	NH2-N (mg N 1-1)	0.045	0.135
	$NO_{2}^{3} + NO_{2}^{2} - N \text{ (mg N 1-1)}$	0.130	0.081
	Dissolved Ortho-phosphate (mg P 1-1)	900.0	0.014
	Total Phosphorus (mg P $1^{-1}$ )	0.059	0.034*

TABLE G-3f

以下,这个人也是一个人,也是是一个人的人,也是一个人的人,也是一个人的人的人,也是一个人的人的人,也是一个人的人的人,也是一个人的人的人,也是一个人的人的人,也是

ALGAL GROWTH POTENTIAL

Cycle 6 Station 12

Date Collected 9/24/79 Date Processed 9/25/79

					OWIR KES	pouse,	mg/ I AS	n-rree		
		12	12 Day Count		14 Day Count		14	Day Co	ınt	Overall
		Replicati	ð				eplicat	9		
Treatment	1	2	2 3	١×	$\overrightarrow{x} \pm 2\sigma$ 1 2 3	1	2	3	$\bar{x} \pm 2\sigma$	$x + 2\sigma$
ΠW	0.05	0.14	0.10	0.10	₹ 0.08	0.20	0.18	0.16	$0.13 \pm 0.04$	.14 0.10 0.10 $\pm$ 0.08 0.20 0.18 0.16 0.13 $\pm$ 0.04 0.14 $\pm$ 0.11
LW+P	0.31	2.02	0.16	0.83	± 2.07	0.85	2.19	0.27	$1.10 \pm 1.97$	.02 0.16 0.83 $\pm$ 2.07 0.85 2.19 0.27 1.10 $\pm$ 1.97 0.97 $\pm$ 1.83
LW+N	0.14	0.05	1.03	0.41	± 1.07	0.38	0.10	0.19	$0.22 \pm 0.29$	.05   1.03   0.41 $\pm$ 1.07   0.38   0.10   0.15   0.22 $\pm$ 0.29   0.31 $\pm$ 0.73
LW+P+N	5.91	0.30	7.45	4.55	± 7.52	4.92	0.21	8.87	4.67 ± 8.68	.30   7.45   4.55 ± 7.52   4.92   0.21   8.87   4.67 ± 8.68   4.61 ± 7.27
LW+E	0.15	0.26	0.07	0.16	₹ 0.19	0.11	0.03	0.11	60.0 ± 60.0	.26   0.07   0.16 $\pm$ 0.19   0.11   0.03   0.11   0.09 $\pm$ 0.09   0.12 $\pm$ 0.16
LW+P+E	0.62	0.16	0.29	0.36	± 0.48	0.71	0.47	0.14	0.44 ± 0.57	.16 0.29 0.36 ± 0.48 0.71 0.47 0.14 0.44 ± 0.57 0.40 ± 0.48
LW+N+E	0.11	0.22	0.22	0.18	± 0.12	0.11	0.27	0.16	0.18 ± 0.16	.22   0.22   0.18 ± 0.12   0.11   0.27   0.16   0.18 ± 0.16   0.18 ± 0.13
LW+P+N+E	0.38	0.40	0.16	0.31	± 0.26	1.46	0.32	90.0	0.62 : 1.49	.40 0.16 0.31 ± 0.26 1.46 0.32 0.06 0.62 ± 1.49 0.46 1.01

Background Water Quality

Processing

Before Processing

7.35

95.

0.375*

0.350

0.062

<0.02

0.005

Parameter and Units	Specific Conductance $(\mu mho cm^{-1})$	Total Kjeldahl Nitrogen (mg $n_1$ )	$^{NH_3-N}$ (mg $^{-1}$ )	$100^{-} + 100^{-} - N $ (mg N 1 ⁻¹ )	Dissolved Ortho-phosphate (mg P 1
e Water 5 mg/l P spike 10 mg/l N spike	10 mg/l EDTA spike	•			

Total Phosphorus (mg P 1⁻¹)
*Confirmed

0.005

0.002

TABLE G-3g

## ALGAL GROWTH POTENTIAL

Cycle 6 Station 13

Date Collected 9/24/79 Date Processed 9/25/79

					Growth Response, mg/l Ash-Free Dry Wt.	ponse,	mc/l As	h-Free	Dry Wt.		
		12	12 Day Count	unt			ř	14 Day Count	unt	Overall	111
		Replicate	P				Replicate	a			
Treatment	1	2	3	۱×	x ± 20	1	2	3	$\bar{x} \pm 2\sigma$	x ± 20	ζQ
LW	0.27	0.14	0.32	0.24	± 0.18	0.32	0.20	0.33	.14 0.32 0.24 $\pm$ 0.18 0.32 0.20 0.33 0.28 $\pm$ 0.15 0.26 $\pm$ 0.15	5 0.26 ±	0.15
LW+P	5.14	3.95	0.29	3.12	0.29 3.12 ± 5.05 6.19 5.91	6.19	5.91	0.27		4.13 ± 6.68   3.62 ± 5.41	5.41
LW+N	0.17	0.17	0.18	0.17	0.18 0.17 ± 0.02 0.40 0.21	0.40	0.21		0.20 0.29 ± 0.20 0.23 ± 0.18	0 0.23 ±	0.18
LW+P+N	1.39	0.19	0.19	0.59	0.19 0.59 ± 1.38 3.76 0.22	3.76	0.22	0.21	$0.21   1.40 \pm 4.09   0.99 \pm 2.87$	60.0	2.87
LW+E	1.65	0.14	0.25	0.68	0.25 0.68 ± 1.68 9.17 0.27	9.17	0.27	0.16	0.16 3.20 ±10.3 1.94 ± 7.17	1.94 ±	7.17
LW+P+E	0.40	0.22	0.16	0.26	0.16 0.26 ± 0.26 0.65 0.15	0.65	0.15	0.31	$0.31  0.37 \pm 0.52  0.31 \pm 0.38$	2 0.31 ±	0.38
LW+N+E	0.14	0.26	1.51	0.64	1.51 0.64 ± 1.52 0.14 0.74	0.14	0.74	10.9	3.94 ±12.1	2.29 + 8.54	8.54
LW+P+N+E	19.2	0.18		6.50	0.16 6.50 ±21.9 32.3		4.58		0.35 12.4 ±34.7	9.46 ± 26.8	26.8

Background Water Quality

Processing 0.324* 0.434 0.084 0.024 0.041 Processing Before 0.280 0.060 0.445 0.053 0.016 7.60 150. Total Kjeldahl Nitrogen (mg N  $1^{-1}$ ) Specific Conductance  $(\mu mho cm^{-1})$ Dissolved Ortho-phosphate (mg P Total Phosphorus  $(mg P 1^{-1})$  $\frac{NH_3-N \text{ (mg N 1}^{-1})}{NO_2^- + NO_3^- - N \text{ (mg N 1}^{-1})}$ Parameter and Units

> = 0.05 mg/l P spike = 1.00 mg/l N spike = 1.00 mg/l EDTA spike

TABLE G-3h

ALGAL GROWTH POTENTIAL

Cycle 6 Station 14

Date Collected 9/24/79 Date Processed 9/25/79

				Gre	Growth Response, mg/l Ash-Free Dry Wt.	bonse,	mg/l Ast	1-Free [	Jry Wt.			
		12	12 Day Count				14	14 Day Count	ınt		Overall	
	ľ	Santarata	-			~	Replicate	0			. 1	
reatment			6	۱×	x ± 20	1	2	3	x ± 20	ş	x ± 2σ	
3	0.20	0.38	96.0	0.51	0.96 0.51 ± 0.79 0.26 0.07	0.26	0.07	0.84	$0.39 \pm 0.80$		0.45 ± 0.72	72
1.W+P	4.98	0.44	0.44	1.95	0.44 1.95 ± 5.24	7.93 0.38	0.38	0.26	2.86 ± 8.79		$2.41 \pm 6.55$	55
LK.N	0.43	0.41	0.24	0.36	0.24 0.36 ± 0.21 0.45	0.45	0.46	0.49	0.46 ± 0.04		0.41 ± 0.17	11
1 W+P+1	0.90	3.31	0.47	1.56	0.47 1.56 ± 3.06 4.20	4.20	4.06	0.51	2.92 ± 4.18	4.18	2.24 ± 3.60	8
I M+F	0.38	0.29	0.18	0.28	0.18 0.28 ± 0.20 0.40	0.40	0.54	0.24	l 1	0.29	$0.39 \pm 0.29$ $0.34 \pm 0.26$	92
i W+P+F	18.9	11.4	0.43 10.2	10.2	+18.6 9.31 12.6	9.31	12.6	0.64	7.51 ±12.3	12.3	8.88 ± 14.4	4
I W+N+F	0.22	0.40	0.16	0.26	0.16 0.26 ± 0.24 0.35	0.35	0.26	0.20	$0.27 \pm 0.15$	0.15	0.27 : 0.18	8
LW+P+N+E	9.16	0.52	3.65	4.45	3.65 4.45 ± 8.75 18.5		0.62	7.08	8.75 ±18.2	18.2	6.60 ± 13.6	9

Background Water Quality

	Darameter and Units	Before Processing	After Processing
	HC	7.65	
ike	Specific Conductance (wwho cm ⁻¹ )	208.	
	Total Kieldahl Nitrogen (mg N $1^{-1}$ )	0.138	0.201*
	NH2-N (mg N 1-1)	0.018	0.069
	NO. + NO N (mq N 1 1)	0,475	0.427
	Dissolved Ortho-phosphate (mg P 1-1)	0.002	0.005
	Total Phosphorus (mg P $1^{-1}$ )	0.023	0.017

TABLE G-3i

## ALGAL GROWTH POTENTIAL

Cycle 6 Station 15

Date Collected 9/24/79 Date Processed 9/25/79

		<u>.</u>							
	12	nay co	การ			14	Day Co	unt	Overall
Re		a				eplicat	٥		
	2	3	1~	± 25	1	2	3	x ± 2σ	x ± 2σ
0.25	0.43	0.33	0.34	± 0.17	0.38	0.43	0.49	0.44 ± 0.11	0.39 ± 0.17
0.26	0.12	0.32	0.24	± 0.20	0.24	0.30	0.32	0.29 ± 0.08	0.26 ± 0.15
0.23	0.24	0.32	0.26	± 0.10	0.33	0.22	0.33	0.29 ± 0.12	0.28 ± 0.11
0.24	7	0.29	0.27	± 0.05	0.22	0.16	0.37	0.25 ± 0.22	0.26 - 0.14
				+1	1			+;	
•				<b>+</b> 1		-	-	+1	+1
				+1			-	<b>+</b> ·	+1
				+1			-	+1	+;
4 1-1 14 14 14 14 16 11 11 11 11 11 11 11 11 11 11 11 11		0.43 0.12 0.24 0.27 	0.43 0.12 0.24 0.27 	0.43 0.12 0.24 0.27	0.43 0.12 0.24 0.27 	0.43 0.12 0.24 0.27	0.43 0.12 0.24 0.27 	0.43 0.12 0.24 0.27 	Replicate       Replicate         2       3 $\frac{1}{2} \pm 2\sigma$ 1       2       3         0.43       0.33       0.34 $\pm$ 0.17       0.38       0.43       0.49       0         0.12       0.32       0.24 $\pm$ 0.20       0.24       0.30       0.32       0         0.24       0.32       0.26 $\pm$ 0.10       0.33       0.22       0.33       0         0.27       0.29       0.27 $\pm$ 0.05       0.22       0.16       0.37       0 $\pm$

Background Water Quality

Lake Water 0.05 mg/l P spike 1.00 mg/l N spike 1.00 mg/l EDTA spike

	Before	After
Parameter and Units	Processing	Processing
На	7.62	
Specific Conductance (umho cm ⁻¹ )	153.	
Total Kjeldahl Nitrogen (mg N $1^{-1}$ )	0.350	0.351
$NH_3-N \ (mg \ N \ 1^{-1})$	0.039	0.072
$NO_2 + NO_3 - N $ (mg N $1^{-1}$ )	0.575	0.540
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.024	0.032
Total Phosphorus (mg P $1^{-1}$ )	0.058	0.051

ALGAL GROWTH POTENTIAL TABLE G-3j

Date Collected 9/24/79 Date Processed 9/25/79

Station 16

				ß	Growth Response and 1 Ash-Eree Dry Wt	Sponse	ma/l As	h-Fran	Orv Wt			
		12	12 Day Count				7	14 Day Count	unt		[[enov0	1167
		sep I care	9				Renilcate	a		T	200	5
Treatment	7	2	3	۱×	$\bar{x} \pm 2\sigma$	1	2	3	$\overline{x} + 2\sigma$		× 1 × 50	<b>2</b> º
3	0.39	0.22	0.50	0.37	± 0.29	0.56	1.14	0.58	0.50 0.37 ± 0.29 0.56 1.14 0.58 0.76 ± 0.66 0.65	4	0 56	63.0
LW+P	1.07	0.20		0.53	± 0.94	2.17	0.24	0 25	0.32 0.53 ± 0.94 2.17 0.24 0.25 0.80 ± 2.22 0.21 + 1.50	3 8	0.50	1 50
LW+N	1.92	2.39	0.61	1.64	± 1.85	4.77	2.47	0 24	0.61 1.64 ± 1.85 4.77 2.47 0.34 2.52 ± 4.42 2.00 ± 2.30	3 5	7 00 0	60.
LW+P+N	0.35	0.44	5.39	2.06	± 5.76	36	0 25	10.4	5.39 2.06 ± 5.76 0 36 0 25 10 4 3 57 11 7 2 67 11 7	-	2 22	3.19
LW+E	0.33	0.26	ļ	0.54	1.03 0.54 ± 0.86 0.49 0.20	0.49	0.20	0 23	0.23 0.31 + 0.32 0.42 + 0.53	12	78.7	8.42
LW+P+E	11.4	14.4	1.83	9.22	1.83 9.22 ±13.1 14.4 14.9	14.4	14.9	5.68	5.68 11.6 ±10.3 10.4 ± 10.0	7 6	10 4	10.03
LW+N+E	0.42	0.28		0.35	0.35 ± 0.19 0.37 0.10	0.37	0.10		0.23 + 0.39 0.29 + 0.28	8	2	0 28
LW+P+N+E	0.34	29.4		14.8	14.8 ±41.0 0.43 26.9	0.43	26.9		13.7 ±37.5 14 3 + 30 1	2	14.3	32 1

Background Water Quality

Lake Water 0.05 mg/l P spike 1.00 mg/l N spike 1.00 mg/l EDTA spike

Parameter and Units	Before Processing	After Processing
рн	7.59	
Specific Conductance ( $\mu mho cm^{-1}$ )	131.	
Total Kjeldahl Nitrogen (mg N 1 ⁻¹ )	0.388	0.356
$NH_3-N \ (mg \ N \ 1^{-1})$	0.102	0.110
$NO_2 + NO_3 - N \text{ (mg N 1}^1\text{)}$	0.640	0.634
Dissolved Ortho-phosphate (mg P $1^{-1}$ )	0.037	0.045
Total Phosphorus (mg P $1^{-1}$ )	0.066	0.054

TABLE G-3k ALGAL GROWTH POTENTIAL

Cycle 6 Station 18

Date Collected 9/25/79 Date Processed 9/26/79

Growth Response, mg/l Ash-Free Drv Wt.

				פֿ	or OWLII RESPONSE, ING/ I ASII-I'ree Ury WL.	Sund Sund	MG/ - AS	מ-נופה	Ory Wit.	
		12	12 Day Count	unt			14	14 Day Count		Overall
		Replicate	9				eplicat	9		
Treatment	1	2	3	i×	x ± 20	-1	1 2 3	3	$\bar{x} \pm 2\sigma$	$\bar{x} \pm 2\sigma$
LW	0.18	0.10	0.26	0.18	± 0.17	0.23	0.18	0.12	$0.17 \pm 0.11$	10 0.26 0.18 $\pm$ 0.17 0.23 0.18 0.12 0.17 $\pm$ 0.11 0.18 $\pm$ 0.13
LW+P	0.30	1.04	3.56	1.63	3.56 1.63 + 3.41 0.12 2.22	0.12	2.22	4.14	2.16 ± 4.02	4.14 2.16 ± 4.02 1.90 ± 3.39
N+M7	0.55	0.10	0.11	0.25	0.11 0.25 ± 0.51 2.25 0.23	2.25	0.23	0.11	0.86 ± 2.40	0.11 0.86 ± 2.40 0.56 ± 1.69
LW+P+N	0.35	0.18		0.49	$0.94 \mid 0.49 \pm 0.80 \mid 0.31 \mid 0.08$	0.31	0.08	0.50	$0.30 \pm 0.42$	$0.50  0.30 \pm 0.42  0.39 \pm 0.61$
LWFE	0.08	0.15		0.16	0.25 0.16 ± 0.17 0.06 0.12	90.0	0.12	0.20	$0.13 \pm 0.14$	$0.20 \mid 0.13 \pm 0.14 \mid 0.14 \pm 0.14$
LW+P+E	0.08	0.43		0.18	0.04 0.18 + 0.43 0.05 0.63	0.05	0.63	0.15	0.28 ± 0.62	$0.15 \mid 0.28 \pm 0.62 \mid 0.23 \pm 0.49$
LW+N+E	90.0	0.30	1	0.15	0.08 0.15 ± 0.26 0.10 0.08	0.10	0.08		0.08 ± 0.03	0.07 0.08 ± 0.03 0.12 ± 0.18
LW+P+N+E	14.6	0.28		5.02	16.5	24.4	0.17	0.07	0.21 5.02 16.5 24.4 0.17 0.07 8.20 28.0	6.61 : 20.9

Background Water Quality

After

Before

LW = Lake Water
P = 0.05 mg/l P spike
N = 1.00 mg/l N spike
E = 1.00 mg/l EDTA spike

Parameter and Units	Processing	Processing
Hd	7.25	
Specific Conductance (unho cm ⁻¹ )	122.	
Total Kjeldahl Nitrogen (mg i 1-1)	0.384	0.390
NH ₂ -N (mg N 1 ⁻¹ )	0.057	0.110
$105^{-} + 105^{-} - 11 \text{ (mg N 1-1)}$	0.225	0.219
Dissolved Ortho-phosphate (mg P 1-1)	0.006	0.020
Total Phosphorus (mg P $1^{-1}$ )	0.050	0.080

APPENDIX H
PHYTOPLANKTON DATA

## LIST OF TABLES

TABL E	DESCRIPT	TION	PAGE NO.
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H-3	Phytoplankton, Cycle 3,	June 4-6, 1979	H-21
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TABLE H-1a

***************************************		***	***	++++++++++++++++++++++++++++++++++++++	***	***	***************************************	**	***	***
TAXONOMIC CLASSIFICATION				NUMBER	NUMBER OF ORGANISMS AT STATION:	SMS AT ST	AT 10N:			
	_	N	n		vo	•	-	6		0.7
	•							•	•	•
+ ANABARNA SP	110 811	111 111	111 111	111 111	111 111	111 ON 1	411 111	112 111	111 1871	*** ***
+ DSCILLATORIA LIMMETICA	£84		1	377	1		1	392	ı	,
CM_OROPHYTA										
	121 8	1 1 1 1	121 8	1 4 N 0	191 1	ili o	1 20 4 80 1 20 4 80	1871 6	181 2	1 4 8
CARTERIA SP CHARACIUM AMBIGUUM CHLAWYDOMONAS SP CHIOMETIA SP CHOOLIETIA SP	11 121			11 211	<u> </u>	8 8	11 11	11 400		511
CHODATELLA SUBSALSA  CHODATELLA SUBSALSA  COELASTRUM MICROPORUM  COELASTRUM PROBOSCIDEUM	111	<u></u>	111	1 101	111	118	111		155	
CRUCICENIA GUADRATA + CRUCICENIA TETRAPEDIA + DICTVOSPHAERIUM PULCHELLUM	***	111	115	117	1 1 8 2 8	119	1 1 80	152	298	111
+ ELAKATOTHRIK GELATINDSA + EUASTRUK SP + GOLENKINIA RADIATA	111	111	111	1 1 8	112	111	112	''%	<b>B</b> 11	
+ RIRCHWERIELLA LUMARIS + RIRCHMERIELLA DBESA + DOCY 5715 SP	111	111		110	211	<b>Q</b> 1 1		76 1	111	121

TABLE H-la (cont.)

PED 1451 PAU OBTUSAN SCENCES SAUS ABANDANS SCENES		• •				•							
### ### ##############################	•	•••			Ž	426		4	1 1 1 1 0 N ::				
### ### #### #########################		_	~	•	•	•	•	•		•	•	٠	9
### ### ##############################	::							•••••	• • • • • • • • • • • • • • • • • • • •	••••••	•	• • • • • • • • • • • • • • • • • • • •	• • • • • •
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TABLE H-la (cont.)

TANGEDRIC CLASSIFICATION		•	•	NOR GR	Susinyouo Jo	A 54	ATICN:			
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CYPYCEAR										
+ OINOSPYON BAVAFICUM • DINOSPYON DIVERGENS • UNIO CHEVSCONYCEAE	111	1 1 2	111	111	1 + 1	111	111	111	,,,	1 4 1
+ ACHNANTHES LAMCEOLATA V DUBIA + ACHNANTHES SP + ANFHOFA PERPUSSILLA	111	mm'i	111	NI I	111	<u>N</u> 11	111	111	111	211
	50 1 1	์ เกิ	***	211	325	g 1 1	\$ 1 1	Ē''	8811	<b>:</b> ''
+ CVCLOTELLA CATENATA + CVCLOTELLA SP + CVCLOTELLA COMTA	••••	191	111	1 1 1	111	111	181	181	121	181
+ CYCLOTELLA GLOMERATA + CYCLOTELLA MENEGAIMIANA + CYCLOTELLA STELLIGERA	110	7 102	1 1 70 8	158	1 1 5 8	632	115	327	6'6	227
+ CYMBELLA LIPEDEROS + CYMBELLA LEPIDEROS + CYMBELLA MICROCEPHALA		, 11		111	111	111	111	111	111	
+ CYMBELLA TUMIDA + EUNDIIA CURVATA + EUNDII/ TEMELLA	111	111	111	111	111	111	111	111	119	
+ EUNDTIA SP + FRAGILARIA CAPUCINA V MESOLEPTA - + FRAGILARIA CONSTRUENS	••••	111	111	111	211	111	111	111	111	111
+ FRAGILARIA LEPTOSTAURON + FRAGILARIA PINNATA + GOPPHENEMA ACUMINATUM	111	111	111	111	111	111	111	111	111	
+ GCPPHCMENA PARVILUM + MELOSIRA AMBIGOA + WELOSIFA OISTANS	1273	3572	795	596 3126	\$050 \$050 \$050	1 1 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	100 P	6733	9000	1501
MELOSIFA GRANGLATA MELOSIFA GRANGLATA V ANGUSTISSIMA MELOSIFA VARIANS	1 <u>6 F</u>	121	111	121	111	<b>8</b> :1	111	<b>5</b> ''	111	<b></b>
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TABLE H-la (cont.)

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NAVICULA CONSTANS	11		••		• •	<b>.</b> .		••	••		• •	• •	٠,	• •	
NAVICULA CRYPTOCEPHALA	1		•	,	•	+	•	•	•	•	•	,	١	•	•
MAVICIA EXIGUA V CAPITATA	1	٠	• •		• •	• •	(	٠.	• •	•	• •	• •	•	• •	٠
NAVICULA GASTRUM	1		+	,	•	• •	• •	• •	•	•	•	•	1	•	•
HAVICULA GREGARIA	1	•	+ 4	,	•	•	•	•	•	•	• •	• •	•	• •	ı
MAVICULA LATENS	1		• •	,	• •	• • 1	•	• •	• •	•	• •	•	١	•	•
MAVICULA PUPULA	11		• •	1	•		1	•	• •	•	•	•	• (	• •	• 1
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NITASCIBA KUTZINGIANA			• •	•	•	+ 1	•	• •	• •	1 (	• •	• •	•	• •	
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NITSCHIA PALEACEA		•	• •	•	•	+ 4	•	• •	• •	• 1	٠.	• •	1 (	• •	• (
NITZSCHIA SINUATA V TABELLARIA		• •	• •	, ,	• •	+	•	•	+	1	•		•	• •	٠
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STEPHANDOLSCUS ASTRACA	1		• •	•	• 4	• •	•	+ 4	• •	•	• •	• •	•	••	•
SURTRELLA ATOMUS	11	•		•	· •	*	•	• •	1	•	• • •	1	-	•	•
STREDA CAPITATA	11	• •	• •		• •	• •	1 1	• •	• •		• •		'	• •	•
SYNEGRA DELICATESSIMA			++	•	••	++	1	••	++	=	++	• •	•	• •	23
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STANDONA HUMPENS V PAKILAHIS	•	• •	•	•	• •	+ + 1	•	• •	• • •	•	• •	• •	2	• •	•
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EUGLENOPHYTA		••	**		•••	• •		**	**		••	••		••	
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EUGLENA SP	1	• • •	• • •	•	• • •	• • •	•	• • •		1	• • •	1	•	• • •	23
LEPOCIACLIS TEXTA TRACHELEMONAS SP		• •	• •		• •	• •	, ,	• •	• •	۱ =	• •	• •	• •	• •	

TABLE H-la (cont.)

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••••••	***************************************		••••••	· · · · · · · · · · · · · · · · · · ·				<b>:</b>		<u>:</u>		<b>:</b>
TOTAL NUMBER OF ORGANISMS NUMBER OF TAXA	16431	8103	8837	6819	 	• • • • •	<b>6</b> 0 <b>8</b> 0	20	40°	* * * * * * * * * * * * * * * * * * *	0 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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TABLE H-1b

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TAXCACHIC CLASSIFICATION				NUMBER OF	H DRGANISMS	MS AT STATION:	A T 1 ON:			
	=	12	13	•	5	91			61	•
		***********	***	******						***
CVANOPHVIA		• • • • •					• • • • •	• • • • •		• • • • •
ANABARNA SP APHANCKAPSA DE ICATISSINA APHANCKOCCOUS DISPERSUS	111	141	918	011 M	110	111	111	111	1188	
ANGRY & CONTORTA  ERISECPEDIA TENUISSIMA  AICROCYSTIS INCERTA	111		111	111	119	111	111	223	118	
GSCILLATORIA LIMMETICA	1	1	1	1	2	,	2	,		
CHLOROPHYTA										
ACTIMASTRUM HANTZSCHII	111	181	1101	101	1 40 1	<b>9</b>	111	111	191	••••
ANKISTRODESHUS SPIRALIS CARTERIA SP CHARACIUM AMBIGUUM	ตี''	119	NIN	104	1	<b>*</b>	W   1	2-1	£11	
CHLORELLA SP CHLORELLA SP CHDDATELLA CHDDATELLA CHDDATELLA	\$'#	110	<b>V</b> D 1	N 1 1	1-1	-11	111	='=	₩₩.	
CHODATELLA SUBSALSA COELASTAUM MICROPORUM COELASTRUM PROBOSCIOFUM	111	111	111	111	111	111	111	••••		
CRUCIGENIA QUADRATA CRUCIGENIA TETRAPEDIA DICTYOSPMAERIUM PULCMELLUM	151	121	112	110	110	1 40 10	1111	1 1 99	' '5	
ELAKATOTHEIN GELATINOSA ELASTRUN SP GOLENKINIA RADIATA	<u>.</u>	181	N1-	111	1110	110	110	111		••••
+ KIRCHMERIELLA LUNARIS + KIRCHMERIELLA QUESA + ODCYSTIS SP	• • • • · · · · · · · · · · · · · · · ·	118			-11	-11	111:	111		

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TABLE H-1b (cont.)

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TEITASTRUM STAUMOGENITORNE TREUBAPIA SETIGENUM ************************************	• • •	•	•	•	•	•		•	
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CRYPTCHONS EROSA + + + 115	25 *****	•••••	! N	11	· • • • • • • • • • • • • • • • • • • •	N I	11		
ATARAMAMATA	•	•	•	••••					
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+ GLENDONIUM SP + + + + + PERIDINIUM SP + + + + + + + + + + + + + + + + + +	• • • • • • • •	• • • • •	11	• • • • • • • •	11		• •	• • • • •	•••••
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GPHIOCYTIUM CAPITATUM V LONGISPINUM	***	***	• • •	1	1	1	1		
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TABLE H-1b (cont.)

TAXCACHIC CLASSIFICATION				NUMBER	OF ORGANISMS	*	STATIOM:			
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:			***	***						
CHAYSOPHYCEAE	•	••••		****		•	••••	•		• • • •
DINOBPOR BAVAPICUM DINOBPOR BAVAPICUM UNIO CHRYSOPYCRAE	111	F N I	111	1 • 1		l = 1	<b>111</b>	111	۲۱۱	
BACILLAR IOPHYCEAE (DIATOMS)										
ACHNANTHES LANCEGLATA V DUBIA ACHNANTHES SP AMPHORA PERPUSSILLA	<u>n</u> 1	N I I	NI I	011	n- :	-1 (	B.1 #	••••	<b>9</b> 1	
ASTERICHELLA FORMOSA COCCONEIS PLACENTULA V EUGLYPTA COSCINDUISCUS SP	9 T	100	1=1	10	11	) t=	n 11	' <u>=</u> '	' <b>3</b> '	
CYCLOTELLA CATENATA CYCLUTELLA SP CYCLOTELLA COMTA	15. 15. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10		<b>⊸</b> 10 (	114	1 m	1 1-		33	185	
CVCLOTELLA GLOMERATA CVCLOTELLA WENEGHINIANA CVCLOTELLA STELLIGERA	118	112	-15	21	1 4017	1 101	• • • •	1 4=	•	
CYMBELLA CUSPIDATA CYMBELLA LEPIOCERUS CYMBELLA MICROCEPHALA			<u> </u>	, 19e		N 11	• • • •		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
CYPBELLA TUMIDA EUNDTIA CURVATA EUNDTI/ TENELLA	,,,			011		. ,,	• • • • •	• • • •	• • • •	
EUNDIIA SP Fragilaria Caducina v mesolepta Fragilaria construens	111	110	1-1	115			• • • • •	• • • • •	• • • •	
FRAGILARIA LEPTOSTAURON FRAGILARIA PINNATA GOPFHENEMA ACUMINATUM	211	<b>*</b>	- <b>+</b> 1	2 2 - 1	1 PN1	1 101			• • • •	: :::
GCMPHCNEMA PARVILUM MELUSIFA AMBIGUA MCLOSIFA DISTANS	8052	~ • • • • • • • • • • • • • • • • • • •	107	118	122	-10	1 100	1 B	1 1 N	
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TABLE H-1b (cont.)

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+ NITSSCTED HOUSATICA	•		• •	~	•	. ~	• •	1	•	• •	•	••	:	:
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TABLE H-1b (cont.)

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+++++**+++++++++++++++++++++++++++++++	9689	916	90 + 451 + 257 + 60 + 490 + 600 + 2643 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 600 + 60	7		227	8			***	2643	
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TABLE H-2a

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+ CHLOROPHYTA	•••	••		• • •	• • •			• • •	, • •		• • •	• • •	• • •	• • •
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+ CHLORFILA SP	••	••		••	••	. 5	••	• •	1 <u>c</u>	<u>.</u> '	<b>%</b> '	: '	••	• •
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+ CHOOKIELLA CHOOKII + CLCSTFRIUM MONILIFERUM	• •	• •	,,	••	••	• •	5.	• •			••	••	• •	
+ CUFLASTRUM MICHOPORUM	••	• •		••	••	•	•	••		,			• • •	• •
+ COSMANIUM TFILOBULATUM		• •	•	•	• •	•		•			• •	• •	••	• •
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+ CYCCTGENTA APICCLATA	•	• •	340	•	•	1	•	•	•	•		•	,	•
+ CHUCICENIA CUADRATA		• •	11		• •	)   	• •	• •	••	• •	••	••	••	• •
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+ DICTYDSPARENCE FARENCERGIAMS + DICTYDSPARENCE PULCHELLUA	••	••	12	••	••	37.	- 52	••	12.	1 VS	100	# 0 	50.	
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+ MCUGENTIA SP + MCUGENTIA SP + PANOFFINA MCHUM	115	+ + 1	101	111	11,1	112	121	- 611		121
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+ SCENEDCSMUS ACUMINATUS + SCENEDESMUS ARMATUS + SCENEDESMUS ARMATUS V EICAUDATA	1 1 0	221	111	100	111	127	- 4 + + +	283	'	• • • • • • • • • • • • • • • • • • •
SCENTRESHUS HIJUGA     SCENTRESHUS HETTCHLAFUS     SCHNFOFSWUS GUADRICAUDA	112	''.	110	110	110	1 1 1 1 1	£ 1 02	1188	1142	110
* SCENEDFIMIS SM * SCLANASTRIM MINITUM * TETRAEGHON CANDATUM	111	+++	111	111	111		112	481	• • • • • • • •	
• TTPBECEN MINIMUM • TETMAFCHON INCOLLANF • TFTGAFOCON TRIGONOM	115	211	111	111	11,1	111	111			
+ TETRASTHUM STAUDDGENIFCRME + PREUHASIA STIGERUM +	<b>S</b> 1	21	11	\$ + + • • • • • • • • • • • • • • • •	167	001	503	5 <b>3</b> 6	-	130
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TABLE H-2a (cont.)

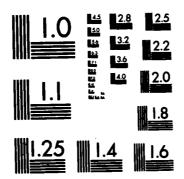
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COCCENTS PLACENTULA V FUGLYDTA Cyclofela cafenata Cyclofella SP	101	••••		111		1 <u>6</u> 1	11;			• • • • •
CYCLOTELLA ULDAERATA CYCLOTELLA MPN-GHINIANA CYCLOTELLA STELLIGERA	119	200	1 1 2 9	1110	5 . 5	12.79	143	114	1 7 15	116
CYWFILA WICHOCEPHALA CYWBELLA MINUTA CYWBFILA TLWIDA		• • • •	• • • •	.1 1 1	;	• • •	111		111	••••
CVMAFLLA VENTRICOSA CYMJELLA SP CYMJELLA SP EUNJTI# PECTINALIS	115	151		111	111	111				
• EUNDTI FENFLLA • FUNGTIA SP • FRAGILARIA CONSTRUENS	 				111		,,,			
PRAGILARIA CROTONENSIS FRESILAMIA LEUTOSTAUNON FRAGILARIA PINNATA	111	111	, , ,	111	111	,,,	111			2
COMPHONEMA ACUMINATUM COMPHENEMA PARVULUM GOMPHONEMA TRUNCATUM	151	111	191	111	111	111	111		,,,	
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NAVIOULA SCUTELLOTORS	• •	• •	• •	• •	• •	• •	۱,	11	••	٠.		
TZSCHIA ACICULARIS	30	11	•	. • .	•	1	32	•	•	•	*	•
172SCHIA HELSATICA	1	••	• •	• •	• •	• •	9	1	**	• •	1	
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SYNEDRA KUNPENS Synedra ulaba		• •	• •	• +	• •	• •			* *	• •		
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TABLE H-2a (cont.)

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CNID RDTINER	• • •	1	1	,	1	1	1		
***************************************	************		+ + •	***		*			
TOTAL NUMBER OF DRGANISMS + 4963 +	\$210 +	7522 +	5443 +	7950	* R66	7289	11745	26936	2.1572
NUMBER OF TAKA + 22 +	52 +	• •	24 +	2	23	2	* * * * * * * * * * * * * * * * * * *	33	+ 22

	AD-A12	WAT FEB RES DAC	ER QUARY- EARCH W01-78	ALITY DECEMING GI	MANAGE BER 19 AINESV 01	MENT 9 79 PH	TUDIE ISE II L DE	S LAKE (U) WA C 82 A	SEMIN TER AN	IOLE ID AIR -11 F/G	8/8	5/ NL	/8
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MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

TABLE H-2b

**LAME SEMINGLE WATER GUALITY MANAGEMENT STUDY - PHYTOPLAMKTON (CELLS/ML)**
COMPS OF ENGINEERS (CONTRACT DACUGI-78-C-0101) PHASE II. CYCLE 2 (4/2-4/1979)
*** PASS TWO - CODFO DATA USED/STATIONS NOT COLLAPSEO

TANDRONIC CLASSIFICATION	•••		•	NUMBER OF	OF URCAN	DRGANISMS AT STATION:	A710N:		,	
	11 + 12 + 14 + 18 + 16 + 16 + 16 + 16 + 16 + 16 + 16	61	**	15	91.		9.	61 + 92	•	•
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CARTERIA SP CHLAYVONDNAS SP CHLORFILA SP		181		<u> </u>	166		· · · · ·			: :::
CHOROCOCCUM HUNICALA CHOBATELLA CHODATI CLOSTFRIUM MONILIFERUM	••••	++++	111	B   1	• • • •		12:			
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CRUCIGENIA APICULATA CRUCIGENIA FEMESTRATA CRUCIGENIA GUADRATA	••••	111					1 11			
- CRUCIGENIA TETRAPEDIA - DICTYCSPARENIUM EMENAPRGIAMEN - DICTYOSPHAEMIUM PULCHELLUM	119	211	111	112	111	110	, '22			

TABLE H-2h (cont.)

TARBNOWIC CLASSIFICATION +			:	NUMBER	OF URGANISMS		AT STATION:			
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+ ACACANTERINA DESERT				P +	71	• •	<u>-</u> '	1 I		
+ MOUGEOTIA SP			•		•					
+ PANDORINA MORUM		28	• • •		Ę		11	2		
PEDIASTRUM RIPADIATUM	•		• • •	• • •	•		• • •			
_					•	•	*			
+ SCHWEDESTUR ACCESSANCE	• •	•	a)	•••	•		• •			
+ SCHEDERALDS ARRATUS - SCHEDERA	10 1 10 1	•••		•••	חו	14		•••		
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TABLE H-2b (cont.)

TAKCHCHI C. CLASSIFICATION				NUMBER	OF DRGANISHS	₹.	STATIONS			
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CLAV GOCCUS SP DINCHARGO BOVARICON DINCHARGO DIVER GENS	NII N	119	090	(11	111	1,11	111			•••
BACILLAR IGPHYCEAE (DIATOMS)								•	•	•
ACHUANTHES SP ACHUANTHES LANCEULATK'V DUBIA AMPHORA DVALIS	<b>≈</b> 11	221	<b>6</b>	ne i	an 1	1011	5°.	<u>52</u> .		
ASTERICHELLA FORMUSA CADARROGKAMMA CRUCICULA COCCONEIS PLACENTULA	,1 1 1 ••••	111	117	111	111	<b>611</b>	3''	111	•••	*****
COCCUPIS PLACENTULA V FUGLYPTA CYCLOTFILA CAFRATA CYCLOTELLA SP	110	161	•11	110	117	,,,	111	111		•••
CYCLOTELLA GLOMERATA CYCLOTELLA MENEGHINIALA CYCLOTELLA STELLIGFRA	2'5	<b>8</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<u>-</u>	24.	£10	- N	3-10	2 2		
CVMFLLA MICROCEPIALA CVMFLLA MINUTA		••••	ធ្វក រ	• • •		• • •		•••	***	
		111	• • •		111				****	
EUNDTIA TENFILA EUNDTIA SP FRAGILARIA CONSTRUENS		111	nig	111	111	111		111	****	
FRAGILARIA CROTONENSIS FRAGILARIA LEPTOSTAUNON FRAGILARIA PINNATA			162	111	111	11-	111	111	****	
COPPHONENA ACUMINATUM COPPHONENA PANYULUM GOMPHONENA TRUNCATUM	••••	111	nın	10)	141	legi				
MELOSIRA AMDIGOA MELOSIRA DISTANS MELOSIRA GEANNA ATA	1293	92	•••	13	žņ	·2	172	250	***	

TABLE H-2b (cont.)

TAKENGHI C CLASSIFICATION +				NUMBER	OF ORGANISMS	SMS AT STATION:	AT10N:			
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CULA CEVPIOCEPHALA	••	•	•	in	, n	, n	,	,		:
NAVÍCULA EXIGNA V CAPITATA + + NAVÍCULA GASTRUM	21	01	<b>o</b> m	±0	r i	-1		••		
MAVICULA LACUSTRIS ** NAVICULA LATENS **	11		m=	•••	•••	1 (		•		
CLEA LATEHUPUNCTATA		•			•			•		
NAVICULA PUPULA NAVICULA RHYNCOCEPHALA V GERMANII	11	11:	="	01	N I	-1		11		
CULA SALIMANIUM V INTERMEDIA +	• •	<b>o</b>	•	•	~ · ·	-	1	•	•	
MAVICULA SCUTELLOIDES  *MAVICULA SCICULARIS  + **********************************			n i 4	•••		1 mh		•••		
CMIA MOLSATICA	•	•	=	•.•	-	. 2	3			
NITYSCTIA IGNORATA NITYSCHIA KUTZINGIANA	27.	1 10	• •	••	10		• •	••		
NITZCHIA PALEA	11	11	11	11	N I	•••		•••		
:			n • • •	•	•	•••	1	,		
NITSCHIA SPANICARILA W WICYDRIAE ** NITSCHIA SP ** OPFFRICA SATIV		161	172	•••	•••	1		•••		
ANDDISCUS ASTRACA V MINUTULA	27	•	: '			,		1		
STEPMANDOISCUS INVISITATUS + STEPMANDOISCUS SP	••	••	••	121	8 ·	11				
PELLA ATGMUS	•	•	1.	• • •	N	1	1	•		
SYNFOLA SF SYNFOLA OF LICATISSIAA		• •	•	' <u>-</u>	••	. m	•••	· <u>2</u>		
SYNEDBA WURDENS	• (			•••	•	m	1	•	•	
				• • •	• • •		1	•		
EUCL ENDPHYTA						,:				
EUGLEMA SP Trachelchoras SP	*	sn I			•					

TABLE H-2b (cont.)

TAXENEMI C.C. ASSIFICATION				MINDER O	F DRGANIS	NUMBER OF ORGANISMS AT STATION:	11041			,
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TOTAL MUNBER OF ORGANISAS	15631 1742 750 1866 493 2A0 8163 7538 000000000000000000000000000000000000	742	750	9901 901	D 8	O M	9000	######################################		

TABLE H-3a

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CORPS OF ENGINEERS (CONTRACT DACUDI-78-C-0101) PHASE 11. CYCLE 3 (6/4-6.1979)

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TAKONOMIC CLASSIFICATION					NUMBER	8	RGANT S	NUMBER OF DRGANISHS AT STATICNS	ATECHE				
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CVANDBUVTA		•••	• • •		•••	**	•••		•••	• • •			
•••		•••	<b>**</b> *		•••	***	***		•••	•••	•••	•••	
+ ALAMATON FLOS-AQUAF  • ALAMATON TOWNS ON TOS-AQUAF	• • •	••••	•••		••••	••••	֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	"	••••	••••	215	.,,	118
+ apranctage Flactage + arrangtage Clatterage + arrangtage Jewens			****	• • •		***	111	111	• • • •	****	211 5	111	
+ CHROCOCCUS DISPERSUS + CHROCOCCUS LIVERTICUS + GLOFOCAPSA RUPESTRIS	8' 1 8	# · · · · ·	****		B11	• ••••	£''	8911	****	••••	<u></u>	146 146	2 1 1 2 2
+ COMPHOSONAFORA LACUSTRIS + I PMCRYA CONTOWA + MFRISMORFORA GLAUCA	181	++++	****	•••	161	••••			111	••••		++1	111
• wapisadpedia Temuissiwa • pscillatoria Limmetica • oscillatoria SP	\$11 6	<u> </u>	- • • • • •	7101	211	• • • • •	<b>2</b>	910	1066	••••	8062	91	1010
PHYNEWIDIUM TENUE POLYCYSTIS ARDIGINOSA POLYCYSTIS INCERTA SPIGULINA LAXA		•••••	• • • • • • •			••••••	111 1	111 1	•	• • • • • • •	1 1 10 1 10 00 00	111 1	111 1
CMLOROPHYTA			•••••			•			• • • • • •	•••••			
ACTIMASTRUM MANTZSCHII AMMISTRUME SAUS FALCATIS AMMISTRUME SAUS MANNOSILFNE AMMISTRUME SAUS SPIRALIS CANTERIA SP CHLAWYDUMMAS SP	111 110	•••••	•••••	111 111		•••••	111 111	111 114		••••••	185 118	181 655	101 812

TABLE H-3a (cont.)

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CHICAGELLA SP	•	•	•	1		•	•	•	3 e .	١		•	7
MUNICIPAL OF CONTRACT	• •	• •	••	• • • •	• •	• •	• •	• •	• • 1 1	• •	••	• •	• •
PPATRIL A SURSALSA	1	++	••	++	•	••	••	••	••	•	••	••	•
CLOSTER NA SE	•	•	• •	1	'!	•	•	•	•	•	•	•	• 1
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THE ASTRON BORUS CHELASTRIA SPEARAICUA	+ 322	••	••	• •	• •	••	٠. ٠٠	••	++	612	386	<b>.</b>	¹
de politica de	••	• •	+ (	1	•	•	•	•	•	•	•	•	•
CONCIDENTA ADICULATA	• •	E.	• • •	1 1	244	• • •		• • •	• • •	• (	6	• • •	105
CHINCIGENIA TETRAPEDIA	•		•	• •	· ·			•	• •		+ 219	• •	
ICTYDSPHAFRIUM PULCHELLUM	10Z •	••	••	* <b>*</b>	•	299	••	••	••	•	13	••	٠
SALESTED COCCOS VARIABLES	••	••	••	••	, ,	••	' <del>*</del>	••	••	•	••	• <b>•</b>	1 1
PLFWINIA RADIATA	++	••	<b>* *</b>	••	•	12	••	••	** <u>*</u>	٠	• •	••	26
GCALUM PFCTORALE RIBCYNEGIFILA LUNARIS	••	••	**	12	1 10	• •	**	++	10	1 99	1337	<b>+</b>	40
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TABLE H-3b

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**LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY - PHYTOPLANKTON (CELLS/ML)** Corps of engineers (Contract Dachoi-78-C-0101) Phase II: Cycle 3 (6/4-6:1979) *** Pass Two - Coded Data Used/Stations Not Collapsed

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TABLE H-3b (cont.)

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PFDIASTRUM DUPP EX V CLATMRATUM     PFDIASTRUM DATUSTUM     DFDIASTRUM TETRAS	111		111	<b>8</b> 11	••••	****	111	111	••••	••••	••••	****
+ PFDIACYDIM TETPAS V TETPADDON + PRIVIDERPSIS SPIMA.OSA + PTTGRENAS SP	611	111		••••	••••	••••	110	141	<b>9</b> 11	••••		****
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+ SPERMATGROSIS EXULTANS + SPONYVLOSIUM PLANUM + STAVEASTRUM SP	211	118		••••		••••	611	111	119	<b>8</b> 11		••••
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TABLE H-3b (cont.)

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7 INTHOPHYCIAF										•
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TABLE H-3b (cont.)

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ACHNANTHES CLEVET ACHNANTHES SO ACHNANTHES LANCFOLATA V DUBIA	i i i	<b>411</b>	116			•••••	•••••			
• ASTRAINSELA FORMOSA • FOFERNIS BLACENTILA • COCFONETS PLACENTULA V FUSLYPTA	311	• • •	121	141	112		••••		211	
+ CASCINDDISCUS SP + FYFLNFELLA CAFFMATA + CYCLOTELLA SP		•••	2'2	••••	212	••••		141	••••	
FYCLOTFILA GLOPERATA FYCLOTFILA MFWFAHINIANA FYCLOTFILA STELLIGFRA	: 12	2:2	ğ':	g:•	<u> </u>	<b>,</b>	#1B		''5	
CVANFILA MICHOCRPHALA CVANFILA MINITA + CVANFILA TUMIDA	<b>'2'</b>	111	•••	•••		••••	166	••••	••••	
PRAGILARIA CONSTRUMS PRACILARIA PINNATA PRACILARIA PANVILUM		<b>g</b> 11	•••	► M 6 N=-	'='		••••	••••	<b>8</b> ''	
+ ADEMINATA TRUCATUR + GINDAINER SP + GYDIATORA ACUMINATUR		, , ,	111	•••	"=	••••	111		••••	
- WPLOSTER AMDIGUA - MPLOSTER DISTANS - MPLOSTER GRAMILATA		•21	322 200	••••	'm	•••	170			
MILITIES GEARL ATA V ANGUSTISSINA  UNICSTER VARIANS  NAVICULA CRYSTOCIONALA	<b>;</b> · · ·	114	***	••••	g' '	<b>nn</b> :	<u></u>	• • • •	••••	
MAVICULA FRIGUA V CAPITATA MAVICULA PUPILA MAVICULA SALINARUM V INTERMEDIA		114	111	<b>0</b>	<b>2</b> ='		•	111	211	
• NAVICULA SP • NITYSCHIA ACICULARIS • NITYSCHIA MOLSATICA		•21	111	•••	•••	***	& I M			
* HITTSCHIA KUTZINGIAMA  • LITTSCHIA PALPA  • HITTSCHIA PALECCEA	111	• • •	•••	141	111	•••	••••	•••	•••	
PITZCHIA SIMUATA V TAMBLLAPIA MITZCHIA SP MITZCHIA MARTYI	• • •	• • •	121	*1=	• • •	•••		•••		
									1	

TABLE H-3b (cont.)

TARGAGAL CLASSIFICATION	•••			MUSER OF	OF ORGANISMS AT	848 AT ST	\$7 4 T 1 OM:			
						•	11	•	•	17 - 10 - 10 - 71
PINCIA ARIA RICARA PINCIA ARIA RICARA ANNO DEN CARIATA	111	111	111					,,,	111	
SVNFDRA DELICATISSIMA SVNFDRA ILMA	21	• 1	19	11	••••	10	1.	<b>4</b> ,	<b>B</b> 1	
EUGLENGEWYTA										
pjojena se Bhaciis se Trechelomonas se	- an		<u>a</u> .,		<b>3</b> 11	G 1 G	111	112	111	••••
PAGTGZGA										•
UNID CILTOPHORA	<b>a</b> '	8,	<u></u>	<b>4</b> 1	g. 1	10 1	<b>B</b> 1	91	21	***
Agrica										
CALD STREET	•				=	Q.	ı			****
TOTAL MUNRER OF ORGANISMS MUNRER OF TAXA	1881	9	9,0			0	<b>6</b> , 7	8 8 8	7063	

TABLE H-4a

CORDS OF ENGINEERS (CONTRACT DACHOL-75-C-0101) PHASE II. CYCLE 4 (7/16-19-1979)

**************************************						***	***	***		***	***
TAKONOMIC CLASSIFICATION				13 <b>22</b> 51	P DRGANT	HUMBER OF DRGANISHS AT STATION:	ATTON:				
		~	,					07 .	=	•	12
										•••••	•
ANATARNA SP • ANATARNOPSIS SP • APPRANT ZOPENON FLOS-AQUAE	181	1 W 1	121	<b>8</b> ''	111	111	,,,	1 1 2	••••	••••	211
APHANDCAPSA DEL ICATISSINA     APHANDCAPSA SLACHISTA     APHANDTPECE CLATMATA	121	NN 1	111	188	er i	181	889 844	00 I	711	• • • •	151
DEMANDINGER MIDULANS     CHROCOCCUS DISPENSUS     CHROCCCCUS LIMMETICUS		191	181	101	118	118	200 I	' <b>;</b> '		****	119
	111	,,,	111	'' <b>;</b>	•••	,,,	•••	••••		••••	110
+ MERISMOPEDIA TENUISSIMA + OSCILLATORIA LIMMETICA + OSCILLATORIA S^		2008 823 174	95 95 95 95	8000 8000 8000 8000	911	226 226 226	456 236 364	# #550 # 1023	5410	••••	2 . 5
POLYCYSTIS INCPRIA	'Ē	<b>'</b>	' <b>.</b>	'\$	11	11	202 202 202	101	'Ā	****	I ID .
CIL DROPHYTA										•••••	•
ACTIMASTRUM HANTZECHII AMEISTRODESHUS PALCATUS AMEISTRODESHUS NAMOOSELFIE AMEISTRODESHUS SPIPAALIS	1 2 1	121	191	181 8	121 1	121 1	151 1			•••••	101 1
+ CHAPTENIA SP	11	11	11		Ŋ!		1	11	•••	•••	11

TAKINGMIC CLASSIFICATION				NUMBER	OF DRGANT SHE	*	\$\$410W:			
•••		•				•	•	•	:	2
+ CHLA HYDGWONAS SP	•									
+ CHLOROLLA SP + CHLOROCONTUM ST. CHCATIM				•		8'	, <u>.</u>		••	••
	,	1	••	••	• • •	•	1	•	•	•
+ CALUAGOMIUM EUCH CRUM + CHEDATELA CHEDATI	• •		••	•••		11			•	
CHODATELLA WPATTS, AFIENSIS	1	1	•		•			•	ı i	•
+ CLOSTERIUM SP + COELASTELM CAMBRICUM	11	11	<u>G</u> :	•••	11	11	11		11	<b>7</b> 1
+ COLUMNIA MICHERIA MANAGEMENT + +	•	n •	•	•	342	9	1	•		•
• COFLASTBUM SPACESCIANU • COSMARIUM SPACESCUM • COSMARIUM TRILORILATUM	188	121		121	8.5.1 8.6.1	198	191	1 73 1	181	
+ CO54 AR 104 SP	1	•	1	••	1	•		F7 X		2
+ CRUCIGENIA APICULATA + CRUCIGENIA TFTRAPEDIA	272	591	••		11	11	11		• • •	28
DICTYOSPHAFFILM PARPERERS ANUM     FITCYOSPHAFFILM PARCETLE ANUM     FOR MORPHOCOCCUS VARIABLES	111	12	12	236	3	113	11	18	18	
+ ELAKATOTHATA GELATINOSA + EUASTRUM SP	1 1		. 11							
+ GOLEMINIA BADIATA	=	=	*	1	=	2	**	5	3	•
+ CONTIN PETTORIE - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW PIST - CONTIN NEW	184	221	100	111	112	221	145	125	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	171
+ MICRACTIMIUM PUSILLUM V ELEGANS + ODCYSTIS SP + PANDGRINA MORUM +	' <b>%</b> '	181	! ! ទ	181	181	1 (6 )	121	111	113	181
+ PEDIASTOUM DIRADIATUM + PEDIASTRUM DUPLEX V CLATHBATUM + PEDIASTRUM SIMPLEX V DURDEMARIUM +	111	991	****		111	Ē' '	111	1 %	2''	1 1 7
+ PEGIASTRUM TETRAS V TETPAGDON + PTFRCYCNAS SP + RADIOCOCCUS NIMBATUS	111	:	.111	111	181	'g'	111	(m)		••••
+ RH12OCLONIUM SP + SCEWEDESWUS ABUNDANS + SCEWEDESWUS ACUMINATUS	111		121	· 22	112	111	<b>#</b> 11	191	181	••••
+ SCFWEDESWUS ARMATUS + SCFWEDESWUS APMATUS V BICAUDATA + SCFWEDFSWUS AFJUGA +	<b>3</b> 51	808	122	\$5°	<b>3</b> 11	181	67.0	26.5 25.5	<u> </u>	211
SCFWEDESWUS DENTICULATUS SCFWEDESWUS QUADRICAUDA SCFWEDFSWUS SF	1 6 6	195	- + + + + + + + + + + + + + + + + + + +	131	121	1 50 1	181	1 2 4 5	1 22 2	

TABLE H-4a (cont.)

Tambule Classification				-	THE OPERAL	NUMBER OF ORGANISMS AT STATION:	ATTON:			
	-	*	•	•	•	•	•	•	=	•
20 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	211	, , , , , , , , , , , , , , , , , , ,		• • • • • • • • • • • • • • • • • • •	<b>5</b> 5	<u>.</u>	**** ****		118	• • • • • • • • • • • • • • • • • • • •
SPERM TORON SIS CHILTANS SOUNSTILL PLANN STAUMSTRUM SP	'28		''\$	111	111	121	111	1 1 9	112	100
TETO ACTION CALOATUM TETO ACTION BUT INCH	, , ,		111	111	121	111	111	121	112	Øn: Ø≕
TETE AFTER BE ULANT TETE AFTER STAURESCHIPORME TREUBANTA BET 1987UM UNIO CHLOROPHYTA	***		111	111 91	='' ='	111 2	116 11	111 11	111 600	ngı ii
CRYPTGPAYTA										
CRYSTONS PROSA	<b>2</b> '	21	80	70	21	0 !	•••••• <u>-</u>	71	11	<b>9</b> 2
AT WASDARRY A							•			
CERATIUM HIPUNDINELLA G.FNGNOMIUM SP	11		11	<u>.</u>	13		J 1	I R	11	10
X ANT MEPOY CEAE										
ARACHMIC M.ORIS SP OPHIOCYTIUM CAPITATUM	, ,	11	11	rı	11	<u>e</u> 1	<u></u>	Ø1	Ŗ¹	

TABLE H-4a (cont.)

TAKONOMIC CLASSIFICATION	• • •			NCABER	OF ORGANISMS	¥	STATION:			
••••	-	~	n •	•		•	•	2	=	21 •
A A FOUNT SECOND			••••	• • • •		••••				
CM4Y SOCOCCUS SP DINDERSON DAVABIQUE SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON DIVERSON SINDERSON SINDE	111	111	121			111	211	m i i	111	
DINOBRYON STRICT AND A LACYNION SCHERFFLII	11	12	••••	••••	••••		11	15	21	
**************************************				•			•	•	•	
ACHVANTHES LANCECLATA V DUBIA ACHVANTHES SPACES ACHVANTHES SPACES ASTERICNELLA FORMOSA	111	•••••		111			111	111	011	****
COCCURIS PLACENTULA COCCURIS PLACENTULA V EUGLYPTA COSCINODISCUS SP	111	111		'' <b>%</b>	••••		11¢	111		
CYCLOFELLA CATENATA CYCLOTELLA GLOMENATA CYCLOTFILLA STELLIGFRA	118	'å <u>ë</u>	116	112	113	+++ 2001	1.1 %	1 N 9	6.50	••••
CVCLCTELLA SP CYMDFLLA MICPOCEPHALA FRAGILARIA CONSTRUENS	111	111	111		••••	111	115			
PRACILARIA CPDTONENSIS GCMPHONEMA PAPVOLUM GOMPHONEMA TRUNCATUM	3341	21 N	1021	<b>5538</b>		****	92 S	19	<b>#</b> 1 1	••••
MELNSTRA AMOTGUA + MFLNSTRA OTSTANS + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTANULATA + MELOSTRA GTAN	70.0	Sun Sun Sun Sun Sun Sun Sun Sun Sun Sun	2000 2000 2000 2000 2000 2000 2000 200	+++		18081	44+	900 900 100	# 25 # 25 * 4 5 * 5 * 6 * 7 5 * 7 5	****
MFLOSIBA GRANULATA V AV <b>GOSTISSI</b> MA MELOSIBA VADIMIS. NAVICILA CRYPTOCEPHALA	111	ā' '	<u></u>	g' i	6'' ****		#11	227	111	••••
MAVICULA EXIGUA Y CAPITATA NAVICULA GASTRUM MAVICULA PUPULA	111	121	• • • •	<u></u>	••••	111	••••	1112	111	••••
MAVICULA FUTULA V RECTANGULARIS MAVICULA SALIMARUR V INTERREDIA				1 1.	• • • •	12	<b>†</b> † †	11	11	••••

TABLE H-4a (cont.)

TAKEMONIC CLASSIFICATION				NUMBER OF		DRGAHISMS AT STATIONS	AT 10N1			
••••	_	*	n	•		•	•	0.	=	21 •
* NTTSCHIA ACICUL ATS * NITSCHIA HT.SATICA * NITSCHIA HT.SATICA * NITSCHIA HT.ZINGIANA	111		111	111	1,1	121	<u></u> 1	121	111	121
+ MITSCHIA PALFACEA  - MITSCHIA PALFACEA  - WITSCHIA TAVDLICMCLLA V LEVIDEMS IS	111	111	• • • • •		111	<u>.</u>	111	111	111	m + 1
MITSCHIA TRYBLICHELLA V VICTORIAR + MITSCHIA SP + MITSCHIA SP + MITSCHIA SP + MARTY I	111				1 - 1	111	'\$'		==:	111
BHISTIA BILL STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE	\$ 1 <u>2</u>	R:	218	2 =	8			• • •	= '=	1.10
SYNEGRA DELICATISSIMA V ANGUSTISSIMA .	8'	<b>30</b>	• • • • •	11	<b>ä</b> '	11	<b>å</b> '	3'	<b>å</b> '	
EJAL ENDRYTA				•						
EVEL BAS SP PHACLS SP TRACHELOHONAS SP	111	111	111	<u>.</u>	<b>:</b> ''	112	, , ,	22'	<b>8</b> '2	911
PAGTOZOA										
The cladicing of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the	181	121	181	191	121	121	<u></u>	181	181	· nn
TOTAL MUMBER OF DRGANISHS MUMBER OF TAXA	6 N	1961		6. 1.	9 5	22616 35		N 50	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1307
						•			***************************************	*****

TABLE H-4b

COMPS OF ENGINEERS (CONTRACT DACUDI-78-C-0101) PHASE II. CYCLE 4 (7/16-19-1970)

TAMMONIC CLASSIFICATION	***			W.CHBER	OF ORGAN	OF ORGANISMS AT STATION:	FAT SON:		:	
	2	*-	15	2	2.1	81	2		+ 000000 + 000000 + 01 + 11 + 10 + 10 +	
CYMDAHYTA										
anaratha sp Bharadhsis sp Apharizomenon plos—aquae	111	, , , , , , , , , , , , , , , , , , ,				****	••••			
APHANDCAPSA DEL ICATISSINA APHANDCAPSA ELACHISTA APHANDTHECE CLATHRATA	1961 +	107	111	181	' <u>R</u> '	+++ + 1 76 U	121			
APHANDTHECF NIDULANS CHROGOCICUS DISPERSUS CHROGOCICCUS LIRNETICUS	1000	••••	122	161	'B'	100	· • • • • • • • • • • • • • • • • • • •	•		
604PHOSPHAERIA LACUSTRIS Lyng by a centory Nerismoredia glauca	119		-667 -667	••••	++++		••••			
MPRISHPRDIA TRNUSSINA OSCILLATORIA LIMETICA OSCILLATORIA SP	27197	444	1195		++++	44. 374. 308.			•••	
PHORMIDIUM TENUE POLYCYSTIS INCERTA	1307		••••	••••	****	****	'ā			
CHLOROPHYTA	•		•	•						
ACT INASTRUM MANTZSCHII MANT STRODESMUS MANNUSELEM AMT STRODESMUS MANNUSELEM MANTSTRODESMUS SPIRALIS	ā'' š	101	111 8	101 4	111 •	'\$'	2°8 :			
			77	0 I I	<b>*</b> 1 1	: ' '	2 1 1			

TABLE H-4b (cont.)

TANDMIC CLASSIFICATION				ACHBER C	OF ORGANISHS	7	STAT LON!			
;	:	:		•		=	:	•	*	
			•	•	•	•	•	•		
+ CHLAMYDOMONAS SP	3	•							:	
CHLOPFILE SP     CHLORDGONIUM ELONGATUM							•			
+ CALOBOSOMIUM FUCALORUM	ا		•			• • •	•			
O CHOOATELA CHODATI						•				
			1	1	•	•	•	:		
+ COLLANDA CAMBAICUM + COLLANDA CAMBAICUM + CORLANDA MICROSOCIA	1,11				121	101				
+ COCLASTAUR PRODOSCIONAL						• •	• • •			•
+ COELASTRUM SPHAERICUM + COSHARIUM TATLOBULATUM		='			<u></u>	•	<u></u>			
as miletaves .	•						• •		:	:
+ CRUCIONIA ABIOURA + CRUCIONIA  ••	••		• •	• •	••	₽ ' ++	***	***	* * * * * * * * * * * * * * * * * * * *	
DICTYOSPHAFRIUM ENBEWARMENTMETANUM     DICTYOSPHAFRIUM PALCHELLUM     OYSMCRPHCCOCCUS VAPIANILIS	• • •		'£'	'g'	121		!\$! ••••			****
• EL AK ATOTWBIN GELATINGSA • FUASTRUM SP • GRLEWKINIA RADIATA	10 m	110	1 1 12	118	110	' ' <u>\$</u>	150			****
+ GONTUR PECTORALE + KIRCHVERIELLA LUNANIS + KIRCHVERIELLA OGESA	211	Bn-	2''	######################################	***	# # E	••••	••••	****	****
+ MICRACTINIUM PUSTLUM V ELEGANS + ONCYATIS SP + PANDORINA MORUM	,,,	' <b>#</b> #	''	150	•••	4.19 6.79	••••			****
PEDIASTRUM MIPADIATUM PEDIASTRUM DUPLEX V CLATHRATUM PEDIASTRUM SIMPLEX V DUDDENARIUM	111	••••						****		****
PEDIASTRUM TETRAS V TETRADOON  PT-POMDNAS SP  TADDIOCOCCUS MIMDATUS	***	''=		111	•••	••••				****
* MMIZ OCLONIUM SP * SCENFORESHUR ABUNDANS * SCENFORESHUR ACUMINATUR	• • •		''2	· 1 1	•••	••••	' <b>;</b> '			****
+ SCRNFORGAUS ARMATUS + SCRNFORGAUS ARMATUS V BICAUDATA + SCRNFORGAUS ALLUGA	111	1=#	''2	218	116	661	'38 ••••			****
+ SCTWEDERNUS DENTICULATUS + SCENEDERNUS QUADRICALDA + SCENEDERNUS SP	10-	122	120	122	212	' <u>23</u>	953 ••••			••••
+ scraceormia meringea + scraceormia minucum + soratum merulum	<u>.</u>	<b>, , ,</b>	ħ''			2.	••••			
•			:							

TABLE H-4b (cont.)

TAMMONIC CLASSIFICATION	•	•		NUMBER	OF DRGANE	**************************************	STATION:	•	•	
	F.	•	51	01	• 17	91	• 10	***************************************		•••••
SPERMATOZOCPSIS EXULTANS SPONDALOS ION PLANM STAURASTRUM SP	111 112 112 112 113	11=	111	im	101	1 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	195			
* TETRAEDPEN CAUDATON * TETRAEDPEN MINIMA * TETRAEDPEN MUTICUM	•	151	<u> </u>	111	111	111	<b>CO</b> 1		****	
TETRAEDHON REGULARE TETRAEDHEN TRICONIN TETRASTRUM STAURGENIFORME	181	1 170	111	111	111	111	111			
TREUBARIA SETIGERUM Unid Creordayta	• • • • • • • • • • • • • • • • • • •		W. FB	10		K II	11			
CRYPTOPHY TA										•
CRYPTONONAS BROSA PHODOMONAS SP	11	91	<u>.</u>	11	N 1	11	<b>6</b> 4			
PARRINGENT TA										
CERATIUM MIRUMDINELLA G. ENODONIUM SP	15	11	11	11	180		11		• • • • • • • • • • • • • • • • • • • •	
xanthophy ceae				;						
ARACIMOCHLORIS SP. OPHIOCYTIUM CAPITATUM		<b>=</b> '	11	<b>9</b> 0	NW	11	11			
, , , , , , , , , , , , , , , , , , ,		********	*******	••••••	*****			******	******	••••••

Western design of the transfer of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second

TABLE H-4b (cont.)

TAMMONIC CLASSIFICATION +				MC#868	OF DECANISMS	4	STAT FON:		
	:	:	2	:		•	:	•	
CHAVSCHYCZAF	••••			••••	••••	•		• • • •	• • • • •
CMPV SDCOC CUS SP DIMDRAYCH BAVARIQUE DIMDRAYCH BAVARIQUE DIMDRAYCH DIMDRAYCH SPINS DIMDRAYCH SCHENY FFLII	111 11	111 11	111 11		NII II		æ11 11		
ACMANTHES LANCEGLATA V DUBTA + ACMANTHES SP + ACMANTHES SP + ASTRHICHELA FORMOSA +	<b>9</b> 11	111	111	111	NN1	111	111		
COCCOMPTS PLACENTULA V EUGLYPTA + COCCOMPTS PLACENTULA V EUGLYPTA + COSCINCOTSCUS SP	111		111	· · · · ·	1n1	1:11	1 1 <b>©</b>		
CYCLOTELLA CATENATA  CYCLOTELLA GLOMERATA  CYCLOTELLA STELLIGERA	10722	102	401 401	221	1 2 2 2	1525	109		
CYCLCTRLA SP CYMDELA MICHDCEPMLA FPAGILARIA CONSTRUFNS	111	120		 	••••	§ 1 1	••••		
+ PRASTLARIA CHOTCHENSIS + COMPHENSIA PARVILUM + COMPENSION TRUNCATUM +	111	900	111		••••	211	<b>6</b> 11		
+ MFLOSIPA AMBIGUA + + MFLOSIPA DISTANS + + MFLOSIPA GRANULATA + + MFLOSIPA GRANULATA + + + + + + + + + + + + + + + + + +	1188	101	755	1 g 1	12:	++ 763 + 58	9668 		
+ MPLOSIPA GPANULATA V ANGUSTISSIMA + MPLOSIPA VAPIANS + MAVICULA CRYPTOCEPHALA	111	111	111	1 1 50	100	••••	111		
MAVICULA EXICUA V CAPITATA  NAVICULA GASTRUM  MAVICULA FUPULA	111	110	111			1 1 <b>2</b>			
NAVICULA PUPULA V RECTANDULARIS NAVICULA SALINARUM V INTERNEDIA	111	110	111	110		111	••••		

TABLE H-4b (cont.)

TAMPHIC CLASSIFICATION	•••			NOTE	OF ORGAN	OF ORGANISMS AT STATION:	TAT 10N:		
	<u> </u>	:	+ 15	•	. 17	•	•		
	****	::	******						
NITZSCHIA ACICULARIS NITZSCHIA HOLSATICA NITZSCHIA KUTZINGIANA	8 <u>ñ</u> '	110	11.1	មាម ****	110		•11		
NITZSCHIA PALPA NITZSCHIA PALFACEA NITZSCHIA TRYBL IGNELLA V LEVIDENSIS	111	••••	111						
NITZSCHIA TRYDLICMFLLA V VICTORIAE NITZSCHIA SF OPFPMORA MARTYI	111	110	111	rn 1		1 2 1	116		
PHITCSCLENIA SP SIMPLMELLA SP SYM-OPA DELICATISSINA	111	•••	111	1 10 1	,	22.1	••••		
	11	11	121	11	14	11	11	• • •	
EUGLEMDPHYTA					•				
FUCIENA SP PMACUS SP TRACNELOMENAS SP	111	#1 <b>0</b>	111	so I so	N 1 N	1 2 1	110	 •••	
PPOTQ20A				,	•				
PARAMECTUM SP UNIO CILIDONORA UNIO CLADGCERA	111	151	111	121	111	182	1 % 1		
TOTAL NUMBER OF DEGANISMS NUMBER OF TAXA	60 470 27	8 2 5 0 8 0	900	, n	9 P	1675A	3962		

TABLE H-5a

TAXONONIC CLASSIFICATION				MMBER	F DRGANI	MINGER OF ORGANISMS AT STATION:	AT 10M3			
	-		n	•			•		•	97
CYANDRATA	• • • • • • •					•	•			••••
ANADAENA SP ANATATORNOSIS SP APPARIZOREND FLOS-AQUAE	744 744 266 266 266	1121	1954	2 20 8 5 0 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1.8.8 1.00.0 0.4.0 0.4.0	PR.	186	100	200 200 200 200 200	#3 <u>E</u>
APHANGCAPSA DELICATISSIMA APHANGCAFSA ELACHISTA CHROCOCCIS DISPERSUS	1 100	' <b>\$</b> '	118	7 1 68	189	400	115	112	'',	'§'
CHROCCCCUS LINNETICUS GLOCOCAPSA BUDESTRIS GCNOROSOPARRINI VICTORAE	<u> </u>		111	111	111	111	111	111	11:	1100
LYNGBYA CCNTORTA LYNGBYA SF LYNGBYA SF LYNGBYA SF ANDREIA GLACA	111	249	911	9''	111	211	<b>3</b> 11	111	111	****
MERISUCPEDIA TENUISSIMA OSCILLATORIA SI METICA		1 E 1	848 748	110	'&'	<u> </u>	2	NO 1	2 ' 3 2 ' 3	
SPINULINA LAXA	3113	<b>224</b> 1	<b>1</b> 1	2241	2°	,	1634	1061	***	
CMLORCPHYTA										••••
ACTINASTRUM MANTZSCHII PRI STRODESMUS PALCATUS ANKI STRODESMUS PANNOSELENE CHI STRODESMUS SPIRALIS CHU DITELLA CHODATI CHODATELLA CHODATI		10: 199 1:		100 111 01	991 911 11	· · · · · · · · · · · · · · · · · · ·	181 NO1 81	*** '=' ''	<b>52</b> 1 111 11	

TABLE H-5a (cont.)

			***			**			**	***	***	
TAKONOMIC CLASSIFICATION	•••			RUMBER	0	ORGANISHS	7	STAT LON:	•			•••
	-	*	n	•	•	•	٠		•	•	•	:
		****					***				***	
+ COFLASTRUE CAMBRICUE		1	•	•	•	ı		•				
+ COEL SATECE FORCE			• •	• •	• •			• •	• • • •	<b>5</b> 1	••	••
+ COELASTRUM SPHAERICUM		••	**	**	++	2	•	**	**			
+ COSTABILE OBULATUM			•	';	+ .	; 1 ;	61	• •	• • • • • • • • • • • • • • • • • • •	•	<b>:</b> •	
		n N	n n	• •	++	P 17	<u>-</u>	**	••	=	ı	••
+ CRUCINERIA PRICULATA + CRUCINERIA DUADATA	E 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11	• •	••	++	910	• •	+ 4	+ 4	2	000	9
+ BICTYDSPFAER TUN PULCHELLUN		) j	• •		• •	-			· +		2	
+ DYSMCRPHOCOCCUS VARIABILIS	1	,	••	••	+ +		••	٠.	<b>+</b>	•	•	•
+ REPARATORY OF PINCHA + RUANTRUM ND		••	۱ ۵ + +	++	++	<b>6</b> 1	12	••	**	'=	8 <b>3</b>	••
4 + 4 + 6 + 6 + 6 + 6 + 6 + 6 + 6 + 6 +	• •	•	+4	••	٠.	9	•	• •	• •		**	•
CONTON PECTOPALE	•	•	•	• •	+	•	<u>.</u> •	•	) + ] I	<b>5</b> 23	226	31
+ KIBCTVERIELLA LUNARIS	• •	•	011	••	• •	•	••	• •	+ 4 99	=	Z	***************
:	, <b>1</b> ,		+ 27		+.	1	£ +	•	•	1;	•	97
+ 000×318 SP	52	\$ <b>8</b>	520	711	• •	• •	191	• •	いに	;:	••	
+ PAND CRENA HORUM	••	•	••	••	• •	•	۱ ۰۰	••	••	٠	••	
+ PROTASTRUE DIRADIATUE	••	••	••	••	••	, ,	+4	••	11	12	• •	
	•	i •	•	•	+	)	• •	• •	• •		·	
+ PROMINSTRUM CONTURNA + PROMINSTRUM TRIBAS V TRIBACOCK	••	••	11	••	* *	•		••	••	1.1	Z;	••
PED LASTRUM	•	•	•	•	+ <	•	•	•	i	ſ		
SCENFOESPLS	i	. 1			• •	•	•	•	•	3	•	1
+ OCHNEDRUNGS ACCURATES	530	••	: :	**	• •		••	**	• • 55	1	••	
SCENECESMUS	••	••	••	++	++	ı	++	**	••	•	••	
+ GCCMEDERIC BILCON + GCCMEDERIC DENILOCATOR	• •	و' • •	++	፤ ' • •	<b>+</b> +	• •	۲, ۲,	••	* • 3 '	• •	• •	••
		•	•	•	•	1	•	•	•	•		
◆ SCHEMEDENATES GOADMICAGOS ◆ SCHEMEDENATES GOADMICAGOS		••	g 1	•	• •	2	='	••	* * * '	21	25	
SCHR CFOEF IA	•	1	•	•	•	•	•	•	•	•	•	•
+ SELANASTECK FINCIUM		•	-	. 4 .	•	•	=	• • •	•	•	•	8
+ SPIPEROCYSTS SCHOOLSTS	11	••	••	• •	• •	• •	••	• •	• • ·	=;	••	•
+ SPHAEROZOSMA GRAWULATUM	••	•	•	••	• •	•	••	••	• •	•	••	••
+ SPONGYLOS TUM PLANUM	•	121	•	2	•	'	•	• •	**	1	2:	
			2	֓֞֜֞֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֡֓֓֡֓֡֓	. l	<b>:</b>   			B			

TABLE H-5a (cont.)

TARDHOMIC CLASSIFICATION + NUMBER OF ORGANISMS AT STATIONS				PURCES O	NUMBER OF ORGANISMS AT STATIONS	MS AT 8T.	17 10H1			
	_		n		•	•			•	•
1678 EBC CAUDATUM	1 1 7	8		111	1 1 8		111	111	1 2 2	111
TFTALEDRON REGULARE TETALEGRON TRICOMUM V SETTERIUM TREVEARIA SETTERN UNID CHLOROPWTA	111 11	111 11	111 11	111 11	191 11	111 11	111 11	121 11	191 11	<b>9</b> 11 11
CRYPTOPATA		**************************************								
	11	11	N I	11	11	11	n I	1=	<b>å</b> 1	ra
PYRINGPRITA										
G.EMCOCATUR SP PERIOINIUM SP	11		11	g'	11	21	'2	11	<u>n</u> 1	<b>a</b> '
XMTPDWCEAE										
APACINGC PLORIS SP	, ;	,	•••	•	,	•	,	1	,	1

TABLE H-5a (cont.)

TAXONDALC CLASSIFICATION	••••			NUMBER	F ORGANI	NUMBER OF ORGANISMS AT STATION:	7 1 Oe:			
	•	~	'n	•	•	•	•	•	•	•
E ST										
CHRYSOPHYCEAE										
CHRYSOCOCCUS SP LAGYNION SCHEIPFE II	18	11	11	+1	11	11	10	- 18	<b>28</b>	12
BACILLARIGMWCZAE (DIATOMS)										
ACHHANTHES LANCEGLATA V GUETA Achhanthes Sa Crucicila Capatrogramia Crucicila	111	111	111	111		111	111	111	111	
COSCINDDISCUS SP CYCLOTELLA GLOMERATA CYCLOTELLA STELLIGERA	118	118	I A A	116	211	· ' <b>2</b>	<b>2</b> ' <b>8</b>	====	'2 <b>3</b>	' <b>3</b> ;
CYCLCTELLA SP CYMPELLA MICHOCEPHALA EUNOTIA SP	111	111	111	111	111	111	111	111	111	•••
PRAGILARIA CROTONENSIS PRAGILARIA PINNATA PELOSIRA ANGIGUA	pı i	pı ı	211	211	<b>3'</b> 5	‡'ĥ	ğ' <b>ş</b>	£'8	ã' '	ã'≛
PELOSIPA DISTANS MELOSIRA GRANLLATA MELOSIRA GRANLLATA VANGUSTISSIMA	<u>22</u> '	901	NO 1	' <u>?</u> '	RG!	28 1	<b>#</b>	N48	ñã'	<b>33</b> '
NAVICULA CAPITATA V MUNGARICA P:AVICULA GASTRUN NAVICULA LATEROPUNCTATA	. 1 1 1	111	111	111	111	111	112	111	111	111
MAVICULA PUPULA MAVICULA SP . NI TESCHIA ACICULARIS	1 1 1		111	i pp	111	111	111	118	111	111

TABLE H-5a (cont.)

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			•	•	•		•	•	•
								<b>5</b> 11	
PANETRA BETTEN PER PER PER PER PER PER PER PER PER PER	••••	116	111	122	212	121	122		• • •
SYNEGRA CELICATISSINA V ANGUSTISSINA SYNEGRA CELLANDI V FAMILARIS SAVEDRA LENA V FAMILARIS SAVEDRA LENA	110 1 	110 1	117 1	''	112	' <b>'</b> \$'		115 1	'' <b>:</b> '
CUELENDPHYTA	•		******* *******						
FUGLERA SP PACCERS SP TRACTER SP	•••••	118	111	(11	111	<b>2</b> 11	,,,	Sã.	312
PAQ TQ 20A									
****	••••	•		2	•	\$			ğ
TOTAL NUMBER OF ORGANISMS 11734 NUMBER OF TAXA 82				8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8				* *	

TABLE H-5b

TAXONDAIC CLASSIFICATION				NUMBER OF	OF ORGANISMS	ISMS AT ST	AT STATION:			
	=	21	2	•	2 +	+ 11	=	•		• • • • • • • • • • • • • • • • • • • •
64644666666666666666666666666666666666		**************************************		· · · · · · · · · · · · · · · · · · ·		\$			• • • • • • • • • • • • • • • • • • •	
CYANGBHYTA	• • • • •		• • • •	••••	• • • •	••••	••••	••••	••••	••••
ANAJAENA SP ANABAENJPSIS SP APHANIZOMETJN FLOS-A QUAE	110	911	1 8 1 1 8 1	••••	++++	••••	115	••••	••••	
CHIANGCAPSA DELICATISSIMA APHANGCAPSA ELACHISTA CMRCOCOCCUS DISPERSUS	2219	126	1307	••••	****	' ' 2	<u></u>	192		
CMRODCOCCUS LINNSTICUS GLOLUCAPSA NUPESTAIS GOMPHOSPHAEPIA MICHUPAE	101	111	111	• • • •		• • • • •	••••	••••		
LYNGBYA CONTORTA LYNGBYA SP WEFISYJPFDIA GLAUCA	111	111		934				2''		
MERISADPEDIA TENUISSIMA OSCILLATORIA LIMMETICA OSCILLATORIA SP	\$ ' 5	e ^m n	000 000 000 000 000 000 000 000 000 00	6648 48 48 44 44		3''	96-	7691 10891		
POLYCYSTIS INCERTA SPIRULINA LAKA	W 1	11	160	••••	••••		£'	562		
CHLDPOPHYTA				•	•		• • • • •			
ACTIVASTRUM HANTZSCHII AMKISTRUDES415 FALCATUS ANKISTRUDES415 FALCATUS ANKISTRUDES415 FALCATUS CHLAWOOWANAS 53 CHUDATELLA CHTOATI CHODATELLA SUTSALS4	1=1 001 1	1-1 -11 1	#18 g11 1	981 bii i	110 121 1			195 511 5		
CHICATELLA APATISLAAIENSIS + CLOSTEMIUM SP	11	ın	• •	•••	•••	•••	22	•••		

TABLE H-5b (cont.)

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TAMBABUIC CLASSIFICATION						MUNDER	8	ONG ANT SAS	8 8 8	A 5	8T AT 100	ä					
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	•	•	8		•		•	'	•	'	•	٠,		•			
+ COELASTRUA MICROSONOM	•	•	•		•	1	•	•	•	٠	•	701	•	•		••••	
	•	••	•	<u>~</u>	SO.	=	••	•	••	•	٠.	•	٠.	••			Š
· CORLASTAL SPEAKALOUS	•	•	•	•	•	•	٠	•	٠.	•	•	•	•	27 +		•••••	•
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	1	•	2		• •	)	•	)	•	•	• •	)	•	•			• •
+ CHUCLERIA APICILATA	9	• •			• •		• •	';	• •	•	٠.	5	<u>.</u>		:	:	:
+ DICIAGENTATION BOILDING +	201	•	90	<b>.</b>		•	• •	7	• •	• •	• •	5	•	• •			::
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+ TLAKATOTHATE GELATINOSA	• ;	•			<b>\$0</b>	'	•	•	•	٠	•	52	•	27			
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· GC.E-MINI & GADIATA		•	_	N	35	• ;	•	10	•	3	•	š	•	* **	•	••••	:
**************************************	9	٠.	2 1	•	* * %:	<b>%</b> '	• •	- (	• (	• •	• •	,	• •	• •			• •
	:	•			•		•		•	)	•		•	•			• }
+ KIRCHNERIELL A OSESA	• ;	• •		•	• •	<b>%</b>	•	•	٠.	•	•	•	•	27			
+ OCC **********************************	32	•	•	; 	•	•	• •		•	, ,	• •	2	•	. 4			::
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# DE VICTOR TO THE PROPERTY OF A	•	• •		,	•	•	•	• •	• •	,	• •	•	•	27.			::
PEDIASTRUM DINCER V CLATHRATUM	•	٠.	•		• •	•	• •	•	• •	•	• •	•	• •		:		:
PERIASTRUM DITURUM	•	•	1		•	•	•	•	• •	•		•		1	:	****	-
+ PD0048787 > 844777 204744	• •	• •	<u>.</u>		• •	• •	• •	• (	• •	• (	• •		•			:	::
+ + + + + + + + + + + + + + + + + + +	I	• •	)		•	)	•	•	• •	•	• •	7	• •	• •			;
SCENEDE SAUS	2	•	•		•	209	•	•	•	•	•	921	_	•		•••••	
+ JULY DE PROPERTY TO THE PROPERTY + SUPERTY STATES	25.	• •	2	ě	6 +	• •	• •		• •	• •	• •	106	• •	••			· ·
SUPS SUPS SUB	150	<b>•</b> •	•		••	6	••	*	••	•	• •	42	••	••			•
\$CENEDS 3 11 JUST	10	•	•	•	•	105	•	•	٠	•	•	3	•		****		:
+ SCENEDESMUS DEVITCULATUS	20	٠.	•	• •	••	•	٠.	in Pi	٠.	•	٠.	N 0	٠.	• •		•	:
	9	. • .	2		•	209	•	1	•	•	•	200	*	:	•	•	:
+ SCREDENIAL SETTONAL	7	• •	<b>n</b> i	•	• •	2	• •	n n	••	0 '	• •	21	••	••			::
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SELAMBINOS ANDIOS     ADRIGATOZOGASIS DESETANS		••		•	• •		••	1 4	٠.	1 5	••	, ,	٠.	••			::
+ SPHASACCYSTIS SCHKOSATERI	9.	•	,		•	•	•	'	•	?'	•	•	•				· Ā
	•	• •	-		• •	•	• •	•	• •	•	• •	•	••	••			:
+ SPENDYLUSTUM PLANM	2	٠	-		•	•	•	•	•	•	•	•	•	•			
+ STAUMASTILM SO	9	•	•	•	+	•	+	•	•	•	•	ı	•		••••••	į	:
•		•			١		٠	•	٠		•		•	٠		•	•

TABLE H-5b (cont.)

TAMONIC CLASSIFICATION	•••				OF ORGANISMS	Z	ST AT 10W:			
	=	2	•	:	:	•	:	:	•	•
•••		~ · · · · · · · · · · · · · · · · · · ·					52			
TETELEGIST CALLES	2	m	2	• •		•	2	=		
	11	<b>-</b> 1	11	' <b>2</b>	11	•••	11	•••		
TREUBARIA STRICTION VILLERION TREUBARIA STRICTUA UNID CHLOROPHYTA	' ' ' '		, , 8 8 8 8 8		· ' <u>:</u>		1 84 Mg	·		
CHYPTURMYA										
CAYDTOGONAS EJOSA RHODOJOVAS SP	22	<b>2</b> -	1 <b>0</b>	Ē'			ŭ,	•••••		
ATAMCHARA CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR C			• • • • •	•			•	<b>:</b>		
GLENDDONIUM SP PFRIDINIUM SP	11	24	<b>%</b> '			11	<u> </u>	<u>.</u>	•••	
X AN TRO DIVIGEA !	• • • • • • • • • • • • • • • • • • •					• • • • • • • • • • • • • • • • • • •				
ARACHUSCH, DRIS SP	2	•		i ••••		•••	2			

TABLE H-5b (cont.)

TAMOMOVIC CLASSIFICATION	•••			Memin	OF ORGANISMS		AT STATION!			
	=	:	51	•	:		•	:	• •••••	
+				**				•		
CIRY SUPIR CEAE					•					•
CHRYSOCOCCUS SP LAGNION SCHIMFFELTI	•••	11	#P		<u>:</u> '		11			
									•	
ACPHANTHES LANCEDLATA V DUBLA ACHNANTHES 512 Capartograms Crucicula	111	• <u>~</u>		111			112			
COSCINODISCUS SU CYCLTIFLLA GLOMERATA CYCLOTELLA STELLIGERA	1 N O	14-	887 703	\$ 7.6 26.6		1 <b>6</b> 1	200	1 7 8		
CYCLOTELLA SP Cywieila 41Cancemala Eundtia 52	111	10-	111		•••			F11		
PRACILAPIA CRUTOME 4519 Pracilapia Pineata Pelgsira avricoa	230		111	118	,,,	••••	117	115		
WFLOSINA DISTANS MCLOSIRA GHANILATA MELOSIHA GRANULATA V ANGUSTISSIMA	90	Pn I	111	111	<b>611</b>		981	<b>::</b> -		
NAVICULA CAPITATA Y MUNGARICA NAVICULA LATERDPUNCTATA NAVICULA PUPULA	111	1111	111	111	110		211			
NAVICULA SP NITZSCHIA ACICULARIS NITZSCHIA MULSATICA		nı»	, , ,	111	110	<u></u>	128	~ ı ~		
•	•		:					!	•	

TABLE H-5b (cont.)

TAXONNIC CLASSIFICATION	•••				NUMBER OF		DRGANISMS AT STATION:	AT 10N:			
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STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND STATEMENT AND ST								• • • • • • • • • • • • • • • • • • •			
V ANGUST	111 61		*****	·	1 111 19	• • • • • • • • • •		1 155 B1			
EUSLENDHATA		•	•••••	•••••		* * * * * * * * * * * * * * * * * * *		•			
FUCIENA SP PHACUS SP THACHILDHONAS SP	g i i	1 1	*****		<b>2</b> 11	011	111	•••••	<u></u>		•••
PROTOZGA + UNIO CILIOPHORA	¢	<b>~</b>			Ç,		•	, , , , , , , , , , , , , , , , , , ,	:		
TGTAL NUMBER OF TAXA	16716 45	61 M 64 M	ñ	2	4 4 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2808	3018 + 2898 + 7716 + 7602 + 28 + 28 + 11 + 49 + 49 + 49 + 49 + 49 + 49 + 49	N .		

TABLE H-6a

CORPS OF ENGINEERS (CONTRACT DACUDI-78-C-0101) PHASE II. CYCLE & (4/84-26.1978)

······································		**************************************	•••	•••						
TAMOWOMIC CLASSIFICATION	•••			MUNDER	OF ORGANS	NUMBER OF ORGANISMS AT STATION:	AT 10M:			
•••	-	~	n	•	<b>n</b>	•	•	•	•	9
CAMCDMAN	• • • • • • • • • • • • • • • • • • •	•	:: ::							
Bengalis 99 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 108-108 - 10	00 00	400 I	000 000 000 000 000	000 000 000 000 000	001 001	<b>\$</b> 2'	6.5 6.5 7.5	===	-5'	~*·
DPMANJCAPSA FLACMISTA     DPMANJTACC NIDULANS     CMRCCCCCUS TISPFRGS	100	510	111	1187	<b>?</b> ''	<u>.</u>	111	212		''ā
CMOCCOCCS LIAMETICUS  • COSPNOSDARBIA WICKUSAR  • LYNGKYA CONTORTA	· · · · · ·			130,	113	100	1363	' ' <u>ë</u>	'' <u>E</u>	''\$
+ 4FF134OPEDIA 7FMJ185144 + OSCILLAYORIA LIMMETICA + POLYCYTIY INCPETA	101	480 480 584	-22	120	200			200 000 000	- 60 - 70 - 70 - 70 - 70 - 70 - 70 - 70 - 7	2-0
THE LAME OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PA	• • • •			1	1	•	ı	1	•	•
CHLOROPHYTA										
ACTIMASTRUM MANTZSCHII ACTIMASTRUM MANTZSCHIII ACTIMASTRUM MANTZSCHIII ACTIMASTRUM MANTZSCHIII	151	151	121	3. 50.	121	' <u>\$</u> '	191	1 2 1	· <u></u>	120
- DWEISTRUDES OF SPIRALIS CANTENIA SP CHLAWYOUGHAS SP	<b>R</b> 1 1	211	211	8	211	<b>3</b> · ·	•••	<b>\$</b> 11	011	•11
CMCGFLLA SP CMCDFILLA SUBSALSA CMCFFFIUM SP	115	• • • •	112	111	<u>-</u> 11	112		121	,,,	111
COFLASTRUM MICROPOLUM COFLASTRUM MICROPOLUM	••••		111	111	11,	'2'	111	111	•••	111

TABLE H-6a (cont.)

Taibabalc Classification +				BURDER	OF ORGANISHS	F	87 A7 10h:			
	• •	*	n	•	•	•	•	•	•	:
			***	***	******	***************************************				
CELASTRUY PROBOSCIDEUM	•	*	•	2	2	•	•	•	••	••
COFLASTAUM SPMARRICUM +		•••	12	g' •••	<u>.</u>	•••		••	• •	•••
PUCICEVIA ADICULATA	•	50	50	130		9		2	:	'; •••
TOTAL PARTY TOTAL ACTION TO THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE	• •	P. 1	61	<u> </u>			• •	<b>5</b> '	• • •	, .
LAKATITHELK GELATINDSA	2	2	,	••	••	••	•	•	•	•••
GCLENKINIA BADIATA	<u>-</u>	12	* 2	+ + +	- 50	15	' <b>s</b>	ä	' <u>`</u>	••
# NO!! AND!! AND!! AND!!	1	•	,	• • •	•	•	• ;	';	1;	•••
TOTAL TELL LEMANTS	22	• •	12	·2			<b>:</b> '	**	£'	' <b>`</b>
:	25	•	ň	•	•	1	1	÷	•	•
ACCEPTAGE TOURISM A REFERENCE +					21	3,	21	• •	••	• • •
+	,		=======================================	•	197	••	:	;	*	•
PANDEINA MORUM PROI ASTRUM BIRADI ATUM	••	'è	1 %	••	••	••	· 2		<u>-</u> 3	••
EDIASTRUM DUPLEM V CLATMEATUM	~	•	N	67 170	••	,	•	•	••	••
PEDIASTOLA TRIBAS V TRIBADDON +	•	352	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		••	••	\$ ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ? ?	•	••	••
CENEDESMUS ABUNDANS +	'	***	25	2	98	:	•		••	
SCENEDESMUS ACUBINATUS + SCENEDESMUS ARABIUS + SCENEDESMUS ARABIUS +	12	500	**************************************	22	<u>.</u>	' <b>3</b>	=======================================		••	••
CENEDESAUS ARMATUS V BICAUDATA	6	•	• ;	2	•••	2	2	•	: ••	
SCENEDE SAUS ELJUGA SCENEDISAUS DENTICALATUS	2	• •	N N S S	•••	•••	2	· 2	• •	3 '	
CENEDISTICS GUADRI CAUDA	93	101	9,	F84	349	2	20.00	873 E73	2	,
SCHECEGERA SETIGERA	g •	• •	N 1	6	• • •	= '	<b>#</b> 2	•	ā '	= ·
ELANASTRUE BENUTUE	••	•	•	•	••	,	~	•	••	••
SPERMATOZONASIS EXULTANS +	•••	• •		••	• •	• •	•••	••	••	••
+ HONDALDSION PLANUM	98	2	•	••	••	,	,	•	••	••
STAURASTRUM SP TETRAEDRON CAUDATUM	<b>9</b>	2	<b>6</b> 1	••	••	••	<b>!</b> '	<b>%</b> '	• 1	2' 
+ ************************************	50.	P P	200		# Pi	••		•		•
TETRACORDA TRICCALA				SP +		000		•		•
TOTAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY			•							

TABLE H-6a (cont.)

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			•••	**************************************					1 2		
KANTHEDIUM ANTILOPAEUM	•	••••	••••	••••	1	•	• • • •	• • • •	• • • •	• • • •	• • • •
			••••	••••	• • • • •	•					
CMyPTC4UNAS EROSA		••••	••••	••••	••••	=	•	•	,	••••	
VANTACHEEN A			•	••••	••••		• • • •	• • • •		• • • •	
CFRATIUM SPECIA CLENDCONIUW SP PERITINIUM SR	• • •	•••••	•••••	*****	112	111	•••••		•••••	• • • • • •	•••••
	• • • • •			•••••	•••••	•			• • • •		• • • • • • • • • • • • • • • • • • •
ARACHNOCHLORIS SP	•	••••	••••	****	• • • • •	•	••••	••••			
	•	••••••		•	•	*****			•	•	•

TABLE H-6a (cont.)

TAKONUMIC CLASSIFICATION				NUMBER OF	OF ORGANISMS	4	STAT CON:			
	-	***	7	•	•	•	_	•	•	•
A SOBACEAE										
CHAVACOCCUS SP • DINDBAVON DIVERGENS • LACANON SCHERFELIE	<u>-</u> 11	111	111	116	111	119	1 1 g	111	<u>-</u>	<b>0</b> 11
BACILLAPIOPHYCEAE (DIATOMS)										
ACMNANTHES LANCEDLATA V DUBÍA ACMNANTHES SP AMMINITEURA MELLUFTSA		111	121	1,1	111	<u>.</u>	111	111		•••
COCCUMIS PLACE A V RUGLYPTA COSCINDISCUS CYCLETELLA CA - A	111	•••	••••	111	111	111	<b>19</b> 1	111	111	111
CYCLOTILLA GLOWERATA CYCLOTILLA MENFONINIANA CYCLOTILLA STELLIGERA	112	110	- 1 =	1 16	116	112	921	''=	115	1 1 10
CVWBELLA LEPTOCRENALA CVWBELLA MICHOCRENALA CVWWBLLA MICHOCRENALA	• • •	111	111		111	111	111	111	111	111
GUNDIIA TEVELLA EUNDIIA SP FRAGILAGIA GREVISTRIATA	111	111	111	111	111	111	111	111	<b>6</b> 11	111
PRAGILATA CCASTRUENS PRAGILATA CROTONENSIS PRAGILATA PINNATA	1 % 1	10,1	181	181	I M	181	'ġ'	151	181	151
CCAPTCHIA PARCULA CARTSION ACCIONIA ACCIONA	1110	1 10 g	1.12	112	1100	, 18 8	33,	''"	' ' !	•••
MELOSIA DISTANS MELOSIA GRANUATA MELOSIA GRANULATA V ANGUSTISSIBA	2000	5 N S P O N	700 700 700 700 700 700 700 700 700 700	79 1 79 0	9 8 8 9 8 9 9 8 9		1000	991	70n	*****
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TABLE H-6a (cont.)

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***********	111 111 121				111 111 1	•	•		· • • • • • • • • • • • • • • • • • • •	•••••	••••	
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TABLE H-6a (cont.)

TAIGNOMIC CLASSIFICATION					NUMBER	NUMBER OF ORGANISHS AT STATION:	NE SMS	AT ST	17 100:		•			
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TABLE H-6b

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TAKCHCHIC CLASSIFICATION	*•				NUMBER	0	NUMBER OF ORGANISMS AT STATION:	SKS	17 ST	T 10N:					
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TABLE H-6b (cont.)

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TABLE H-6b (cont.)

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TABLE H-6b (cont.)

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TABLE H-6b (cont.)

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T LANGUA TOTAL	•••		•••		•••	**		•••		• • •	***		•••	•	•••
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なが シェアごテハ リロネレイイ	2	• •	• •	• •	••	• •	•	• •			• •	• •	• •		

TABLE H-6b (cont.)

															#
TABONCHIC CLASSIFICATION					3000	6	GAN1S	NUMBER OF ORGANISMS AT STATION:	7A710N	••					•••
	=	-	•	2	+ 51 + +1 + 51 + 21	•		=	•		16 + 17 + 16 + 19 + ********************************	•	•	•	•••
			***						#			<b>.</b>			***
04675204			• • • •		••••	••••	••••		••••	* * • •		****	****		
· · · · · · · · · · · · · · · · · · ·	71		•••••	•		••••	•	:	****	•••••	•	••••	1		•••••
TOTAL NUMBER OF CEGALISMS	1201	•		75 16 28 28	342 7518 1007 1 342 25 4 42 4			317E	•	72 02 1 0 7 0 7	9318	•	90 9 9 90 90 90 90 90 90 90 90 90 90 90		
◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆◆	***											<b>:</b> :	<b>:</b> :		

TABLE H-7a

**LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY - PHYTOPLAWTON (CELLS/ML)**
CORPS OF ENGINEERS (CONTRACT DACHOI-78-C-0101) PHASE II, CYCLE 7 (12/3-7,1975)
*** PASS TWO - CODED DATA USED/STATIONS COLLAPSED

TAXONOMIC CLASSIFICATION		NUMBER OF ORGANISMS AT STATION	•	NUMBER	ER OF	ORGANISHS	SHS AT	STATION	: : 3	•	• • • • • • •		i i		<u>:</u>
33 LOC: ROBIZ FOC: NEW LOC:	<b>-</b>	,+++	***	. m	•	***	<b>6</b>	•	***	***	60	***	•	9	
CVANOPIYTA	* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	<b>.</b>	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •	<u>.</u> 		* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	<u> </u>	• • • • • • • • • • • • • • • • • • •	
	191 1	+++++	*****	MII 4	OLEM I	*****	111	101 1	****	101 1	- 1 # 1 - F 	* * * * * *	1011		111 :1
	101 112 0	*****	• • • • • • • • • • • • • • • • • • •		1 1 <u></u> 0	******	11 11	11 1100	* * * * * * *	*	11 110- 5	· • • • • • • •	11 116 4	i ii@i 4	
POLYCYSIIS INCERTA	77	rn 		pen ;	ru i	• • • • • • • • • • • • • • • • • • • •	m	n i • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	om .	•	· • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	•	
+ ACTINASTRUM HANTZGUIT + ANM ISTRUM SAUS FAI CATUS + ANM ISTRUM SAUS SPIRM IS + ANM ISTRUM SPINS SPIRM IS + CARTERIA SPINA IS	### #**	I=! QII !++++++	*****	100 011	iel Oili	*****	וומ ויי	FE.1 OFF	*****	111 NI	ሀ4 ጠ	*****	1 th 1 (40.1	100 MII	100 641
CREASTON WINDS SP CHODATELL A CHODATI CLOSTERJUM SP COCLASTRUM SPHAERICCH COCLASTRUM SPHAERICCH COCLOSCUM A PICUCH CRUCICEM A PICUCH CRUCICEM A PICUCH CRUCICEM A PICUCH CRUCICEM A PICUCH	L ' I I I I I I I I I I I I I I I I I I	Q[  NQ  Q~	• • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	i10.   £0.	• • • • • • • • • • •	ነ ነዉዉ ነውን ነነ	1 & 11 & 164 & 1	• • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·		• • • • • • • • • • •			
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TABLE H-7a (cont.)

TANGMOMIC CLASSIFICATION	••••				# <b>30</b> #0#		5	6 en 1 sas	A	7 AT 1848	•					
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+ FLAXATOTINIX GELATINISA		• • •	11	1 2	++	••	•	**	<b>Q</b> . 1	••	• •	11	* *	1 1	++	۱ هـ
+ GOLGEKINIA RADIAIA		. + 4	4	.a.	• • •	. + + L I	_	• • •	1		1	•	**	•	••	
+ CONIUM PECTORALE	++	++	<b></b>	11	++	10.	- 12	++	1 6.	++	18	10	++	1 6-	**	20
	++	**	++	•	<b>.</b>	+ + <u>-</u>		• • 	•	* *	* * !	e.	<b>+ +</b>	t	++	<b>L</b>
+ 00CYSTID SP + PANDOBINA HORUT	•	**	++ -!	<b>(4)</b>	••	• •	~ 1	**	<b>a</b> . 1	••	+ + ·		++-	CH I	++-	1
	•	+ -	+ + a.	<b>Q.</b>	* *	+ + •	•	++	•	++	+ + !	•	• •		• •	•
+ PEDIASTRUM DUPLEX + PEDIASTRUM DUPLEX V CLATHRATUM - PEDIASTRUM DUTUCHA	<b>RI</b> ++	• • •	110	110	++1	++4	110	***	1 0.0	***	110	111	* * *	1 6.0	* * *	110
+ PEDIASTRUM TETRAS V FETRADDON + SCENEDESHAS ADMONAS	• ••	• • •	. 10	1 1 6		. 16	. 18	***	1 10.		. 11	16	***		***	16.
+ SCENEDESHUS ACUMINATIVS	. 6.	++	++	. 1	+'+	++	. 1	**	. 1	++	• •	. Q.	••	1	• •	<b>Q</b>
+ SCENEDESHUS ARHATUS V BICAUDAIA + SCENEDESHUS ARHATUS V BICAUDAIA + SCENEDESHUS BILUCA	<b>G.</b>		<b></b>	<b>a.</b> 1 <b>a.</b>	• • • •	444	<b>L-</b> C	***	e e u		N₽4 +++	444	***	ه ⊶و		<b>~e</b> .c
SCENEDESHUS DENTICULATUS     SCENEDESHUS QUADRICAUDA     SCENEDESHUS SP	. 10 1	•••	###	181	• • • •	101	e.ne.	• • • •	1 100	• • • •	í.ur +++	₽.NI I	• • • •	I Me	• • • •	444
+ SCHROEDCHIA SETICERA + SELALISTIUM MINUTUM + SPERMATOZOOPSIS EXULTANS		* * * *	161	161	****	**** !&!	1-1	<b>* * * *</b> *	16.1	* * * * *	16.1	16.1	* * * * *	1 % 1	* * * * *	111
SPONDYLD: JUM PLANUM STAURAS INIM SP TETRACDAUM CAUDATUM		• • • •	110.	•••	• • • •	116	110	••••	100		110.	111	****	111		16.1
TETRAEDAN MINIMUM + TETRAEDAN MUTICUM + TETRAEDAN REGULAGE	111	••••	4 4 4 4 Q.Q. 1	<b>Q</b>	• • • •	****; *11	111	• • • •	411		4 + + + ·	111		<b>6</b> .11		1 1 1
	& · &	••••	14.1	<b>6.11</b>	••••		111	* * * * *	111	• • • •	111	Q.   1		111		<b>6</b> 11
+ TETRASTRUM METEROCOMINUM + TETRASTRUM STAURDGENIFORME + TREUDARIA SETIGERUM		••••	₽.GI I	I NO.	• • • • •	1-1	1-1	****	1-1	• • • • •	<b>+ + + +</b>	aea	• • • •	IMI		<b>6</b> .011
	-	)  -  -	• • !		• •	•	:	  + 		•			: • • i		+	•

TABLE H-7a (cont.)

TAKONOMIC CLASSIFICATION	• • • •	•		NORTH ORGANISHS AT STATIONS	F ORGANI	OF ORGANISMS AT STATIONS	T 1 0M3			
••••	-	. • N	n	•	•	•				0.
CRYPTUPHYTA	<b>.</b> •				**************************************	•				
CRYPTOHOLYS ENGINE	ı				,				-	<b>a.</b>
**************************************										
+ CERATIUM MIRUNDINGLLA + GLENDDONIUM SP	11	16.	<u>e</u> i	11	11		11	11	11	11
**************************************						• • • •				
+ ARACHNOCHLORIS SP		e.					_	'		
CHRYSOPHYCEAE				****		* * * * * *				
CHRYSOCUCCUS SP DINOBRYON DIVERGENS			11		11			11		

TABLE H-7a (cont.)

TARUNUMIC CLASSIFICATIUM	•••		٠	NUMBER	OF ORGANISHS	ISMS AT	STAT 10M:					
	_	~	n	•	₩	•	•	•	•	•	•	
BACILLARIOPYCRAF		· · · · · ·		•		•	•	•	•			
ACH. WIH. EXIGOA ACHWANTIL'S LANGEGLATA V APICU. ATA ACHWANTIL'S LANGEGLATA V APICU. ATA	+-+++	110				****	*****		111	111	++++	
ACHMANTIK'S SP ASTERION: LA FORNOSA CAPARTOGIAMMA GRUCICIA.A		• • • •	111	111		• • • •	• • • •	116	111	181	• • • •	
COCCOME 13 PLACENTULA V EUGLYPIA CYCLOTELIA CATENAIA CYCLOTELIA CLOMENAIA	11-	1100	1 1701	120	1 ' M	114	• • • •	116	116	110	• • • •	
CYCLOTELLA MENEGIINJANA CYCLOTELLA STELLIGHMA CYMBELLA MICPOCEPHALA	18.1	 	10.1	1 Q 1	10.1	10.1	••••	10.1	I QL I	1-1	101	
CYMDELLA NIMUTA Frasilain Construens Frasilanin Crotomen:Im		111	11-	••••	• • • •	• • • • •	· • • • •	118	111	••••	116	
FRAGILA:O A PINNATA GEMPHONENA ACUMINATUM GOMPHONENA PARVULUM		111			, 1 <b>c</b>	••*••	• • • •	111	щ	111	• • • • •	
GOMPHORE IN SP MELOSIAN AMBIGUA MELOSIAN DISTANS	144	104	144	140	124		++++ 0/1	++++ nm 1	104	1 4010		
MELOSIRA GRANULATA MELOSIRA GRANULATA V ANGUSTICHIMA MELOSIRA VARIANS	NE!	NI I	-01 I	Ma. 1	<b>⊷</b> E.¹		• • • •		<b>Q.Q.</b> (	NQ. 1	• • • •	
NAVICULA CRYPTOCEPHALA NAVICULA FXIGUA V CAPITATA NAVICULA GASTRUM	111	111		••••	••••	••••	**** (11	111	* 1 6	10.1	••••	
NAVICULA FUBULA NAVICULA HADIDSA NAVICULA HHYNCOCEPHALA V OERNANII		111		••••	••••	: • • • • •	••••	• • • • •	• • •	++++	****	
NAVICULA SALINARUM V INTERMEDIA NAVICULA L'A NITZSCHIA ACICULARIS	112	111	144		••••	• • • •	****	111	111			
				•	•	+	•	+	1	•	•	

TABLE H-7a (cont.)

TAROMONIC CLASSIFICATION	•••			PUPBER OF DEGANISMS AT STATIONS	NUMBER OF DRGANISHS	MS AT ST	STAT JONS			
		<b>N</b>	n •	•	•	•	•	•	•	:
NITSCHIA FONITCA NITSCHIA FONITCA NITSCHIA KUT 1160				in a		I B.B.	1-1			
• NITSCHIA PALEACHA • NITSCHIA PALEACHA • NITSCHIA TRYBLIDMELIA V VICTORIAE	111	••••	••••	111	111	111	111	16.1	16.1	111
NITSCHIA SP STEPHANCHISCUS SP SURIRELI A ATORUS	121	111		• • • • •	<b>6.</b> 1. 1	111	<b>6</b> .11	111	* * * * *	111
SVNEDRA INLICATIONAL SVNEDRA KUMPENS V FAMILATIS	216	••••			• • • • •	111	16.1	116	• • • • •	& I &
EUGLERAPHYTA		•								
EUGLENA :#	<u>.</u> 1	t I	11	11	• • • • •	11	11	11	1 6	11
Zudfladil ATES										•
- UNID CILIDPHORA	<b>1</b>	•		••••	1	•		•		•
ROTIFERA	• • • • •	•	••••							
UNID ROTIFER	++++		• • • • •	• • • • •	ı	1		1	•	1
**************************************		******	******	******		*****		*****	*****	******

TABLE H-7a (cont.)

TAMBORNIC CLASSIFICATION		•	•	•			• • • • • • • • • • • • • • • • • • •	\$45.1% \$45.1%	WENGER OF ORGANISHS AT STATION:	 <b>.</b>	•	•			•••••
	-		٠		•	•	•	•		•	•	•	•	2	•••
		•				•		•		•					•••
+ TOTAL NUMBER OF DREANISHS	83	• • •	3	ţ,	• • •	5	•	++	Š	 + + 66	;	++	3	.,	++
NUMBER OF TAKA	8	• • • •	<b>6</b>	37	• • • •	# + + 8	n	유 유	8	 * * * * 87	E	+++	8	.,	* * *
			·	***						·					

TABLE H-7b

**LAKE SENINDLE HATER GUALITY HANAGEMENT STUDY - PHYTOPLANKTON (CELLS/ML)**
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 7 (12/3-7,1975)
*** PASS TWO - CODED DATA USED/STATIONS COLLAPSED

} } } > ; } > ; } > ; } > ; } > ; * ; * ; * ; * ; * ; * ; * ; * ; * ;	•			**	**		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					,	•		
TAXONOMIC CLASBIFICATION				2	NUMBER OF		ORCANISMS	AT STATION	ATION		••				
37 LUC: HORIZ LIGE: VERT LUC:	<b>3</b>	ŭ	***	C1	<u> </u>	***	52	***	2	71	***	91	***	***	+ DATA
**************************************	* * * * * * * * * * * * * * * * * * *	** ** * * * * * *	••••••	**	* * * * * * * *	*******	• • • • • • • • • • • • • • • • • • •	## ##******		* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * *		•	* * * * * * * * * * * * * * * * * * *
APHANIZUMINON FLOB-AGNIAE APHANOCATSA ELACINISIA APHANOCATSA ELACINISIA APHANOCATSA PULLIAA CANAGORINE MIDULIAA CANAGORINE MIDULIAA COMPOSTINENIA MICHANAE LYNGZYA CINTORTA MERISHOPI-LIAA LIPNETICA DOCULLALUMIA LIPNETICA POLYCYSIIS INCERTA	111 110 110 002	111 1-1 1-1 111	,					• • • • • • • • • • • • • • • • • • • •	111 111 111 11		• • • • • • • • • • • • • • • • • • • •	री। ।(ज ।।। चंच	.41 II→ IIO D-W	*******	*** *** *** ** *** *** *** ** *** *** *
CHLORUPHYTA  ACTINASTRUM HANTZECIII ANKISTROINESMUS FAICATUS  ANKISTROINESMUS FAICATUS  CHANTZOINESTUS SPIRALIS  CHANTZOINESS PRALIS  CHANTZOINESS CHODAII  CLOSTERIA SPIECH  COELASTRUM SPHERICUM  CRUCICENIA FERREDA  CRUCICENIA FERREDA  CRUCICENIA FERREDA  DICTYOSPIA PEREDA  DICT	ייין אינה ופו אופ ודו ייין אינה אינד ופו אינד ו	÷	<u> </u>	lit ala aat iii dal	• • •	++++++++++++++++++++++++++++++++++++++	ini ana nai ist ita	****************	ial all III III ial	111 0.11 111 111 111	•	IGI NII IGI IGG IGI	†	* * * * * * * * * * * * * * * * * * *	

TABLE H-7b (cont.)

**************************************	:		•	•						•	•	••••••	•		•
TAXONCHIC CLASSIFICATION					NUMBER	6	ORGANISMS		AT 57.	STAT 10M:					
•••	=	*	•	2	:	•	•		•	17	•		٠	•	
	ä	*****	።		***	••		**	**	<b>::</b>	**	**	።	።	
•		++	+ + •			++	•	++			++	0.	+ +		******
+ FIANTRUE SP		+	· +	,	1	+	1		1	•	+	. 1	+	÷	:
	•	++	+ +	1		+ 4	ı	+ 1	1	<b>-</b>	++	<u> </u>	+ +	+ +	******
+ CONTUR POSTODALE	•• 	+ +	++	۵.	1	+	0	+ +	•		+	1		+	******
+ XIRCHINGSPILLA LUNARIS	. , ,	+	+ -	. 1		+	. • 1	+ 1	. 1 0		++	1 (	+ +	+ + 0.0	****
	<b>L</b>	+ +	+ + !			+ +	1	··+	L		+	!	+	+	
	<b>a</b> .		+ •	٥.	•	+ +	1 €	++	1 1		+ +	<b>Q</b> _ (	+ +	+ + _ 1	*****
+ PANDORIAN HOROM		++	• •	 V I		+	<b>4</b> '	+			+		•	+	***
		+	+	!		+	! !				+		+	+	
+ TEDIASIACH DOPLEX + PEDIASIACH DOPLEX C CLAIMBAIUM	1 1	++	<b>+</b> +	1 1	11	+ +	1 1	• •	11		+ + 1 1		+ +	+ +	*****
OB TUSUS	a.	+	+ -	ı	1	+	ı	+			+	ı	+	+	******
+ PEDIASTRUM TETRAS V TETRADDON		+ +	+ + _	ı	,	+ +	1	++	1		٠٠	ı	+ +	+ +	******
+ SCENEDESITUS ABUNDANS	۵	+ -	+ •	œ.	۵.	+	•		1		+ -	1	+	+ •	****
+ DEFINEDE STOR ACCULANTING +			+ + ı			+ +	•	• +	, , ,		+ +	ı	+ +	+ + I	
+ SCENEDESHUS ARMATUS + SCENEDESHUS ARMATUS V BICAUDAIA	<b>.</b>	++	++	<u>.</u> ;	4.1	++		++-	10.	۵۵.	++	1	++	1	* * *
+ BCENEDESTOS BIJOGS + +	<b>.</b>	+ +	+ +	1		+ +	ı	+ +	· ·	· 	<b>+ +</b>	<b>D.</b>	++	+ +	****
+ SCENEDESMUS DENTICULATUS	0.0	+	+	Q.	10	+-	a	+.	10	•	+	1 (	+	+	*****
+ MCGNEDFINDS GOADY ICAUDA + MCGNEDFINDS SP	<b>.</b> .	++	+ + ma.		L I	++	1 1	• •	<b>.</b> .		+ + 1 &	NI i	++	+ + LQ	***
+ SCHROEDERIA SETIGERA	<b>a</b>	++	٠+	1		++	ŧ	++	1		<b>+ +</b>	ı	++	+ +	*****
+ SMCLANASINCE NINCHTA + SPERMATOZODOSIN PXC. TANS	. i a	++	++	10	11	++		++	11	• •	++	1 1	++	11	***
+	. (	+.	+			+ -	ł	+ 4	•		+ 1		+ •	+	
+ BTAURASTRUM SP +	<b>2.</b> 1	• •	++	1 12.		++	1 1	++			++	1 1	• +	i i	
+ TETRAEDROW CAUDATUM	•	-	+ +			++	ı	+ +	1		++	1	++	++	*****
TETRAEDHON	•		+	•	•	٠.	1		ı	1	+	١	• <b>•</b> •		
+ TETRALDKIN FOLICOM + TETRALDKON REGULARE	<b>i</b> i	+ +	++	1 1		++		• •	• •	. 1	<b>+ +</b>	1 0.	+ +	+ +	·
	•	+	•	1		+ 4		+ 1	7		+ •		+ +	++	
+ TETRAEORON SP	<b>a.</b> 1	• •	+ + 1 1	11		++		• +			<b>+ +</b>		• +	i i	
+ TETRASTRUM ELEGANS			++		•	+ 1	ı	+ +	1	•	++	ı	+ 1	++	*****
+ TETRASTRUM HETEROCANTHUM	•	-	+ +	1	1.	, • • •	ı		ı	'	•	L	+	+	:
+ INTRASTRUM STAUROGENT FORME + TREUDARIA SETIGERUM +	N2.	++	++	1 1		++		• •	+ + 1 1	' '	++	r o	++	i i N I	***
-		•	• •			+					•	!		!	

TABLE H-7b (cont.)

TAMONUMIC CLASSIFICATION		·		+ + NUMBER OF DRGANISMS AT STATION! +	NUMBER OF ORGANISMS AT	ISMS AT ST	STATIONS			
	=	~	•	:	•	•		:	•	•
CRVPTOPHYTA	••• •• •• •• •• ••	•• •• •• •• ••	• • • • • • • • • • • • • • • • • • •	*					• • • • • • • • • • • • • • • • • • •	
CRYPTOHONAS EROSA		<b>.</b>	++++	<b>Q.</b>		• • • • •		•		
PVRRHOPHYTA	• • • • • • • • • • • • • • • • • • •		*******		* * * * * * * * * *	•		*****	<b>‡</b>	* * * * * * * * * * * * * * * * * * *
CERATIUM HIRUNDINELLA GLENDDONIUM SP	18.	1:	• • • • • •	+++++	11	10.	11	11		* * * * * * * *
XANTHOPHYCKAE				•	••••	•	•		•	•
ARACHWOCHLORIS SP							1			*****
CHRYSOPHYCEAE		• · · · · · · · · · · · · · · · · · · ·			•	• • • • •	-	* * * * *		
		<b>(1)</b>	G. I	1 <b>6.</b>		*****	11	11	11	
	*********	******	4444444	****************	*******	********	*******	*******	*****	*******

TABLE H-7b (cont.)

TAXANDAIC CLASSIFICATION					•	MARKE	. 8	GANT	ORGANISMS AT STATION:	STAI	100					
	=	٠	•	2	٠	:		ē	•	•	12	•	•	•	•	•
		<b>::</b> ,	<b>::</b> '		::,						•••••		#			
AN TOTAL AND TOTAL		. + 4	+ +		++		• • •			++		• • •		• • •		
		++	• •		• •		٠.			++		• +			• •	•
••		++	**		++		**	• •		++		++		++	**	
HANANTIES EXTEN	•	++	++	'	++	9		,		+ +	,	+4	•	+ 4	• •	****
ACHIGANTIES LANCEGLATA V APICULATA ACHIGANTIES LANCEGLATA V DUBIA	11	++	. 1 @	10	**	. <b>a. a.</b>	* * *			4+	11	**	1 0,	++	11	***
TANANTIES CO		++	++	'	+ +		+ 1			+ 4	,	+ +	. 1	++	• •	***************************************
CAPATERIONE LLA FORMOSA	. , ,	. + 4	+ 4		++	L 1 1	+ + 4			• • • • • •		+ + 4	11			
		٠+,	*		+		• •			<b>+ +</b>	,	•		+	•	
COCCOREIS PLACENTULA V EUGLYPTA - CYCLOTELLA CAPENATA - CYCLOTELLA GLOMERATA -	!! <b>≪</b>	+++	•••	147	* * *	a.a.	***	119		110	1110	* * *	10.00	* + +	127	
CVCLOTELLA MENEGIINIANA CVCLOTELLA STELL'GERA		***	+++	ומי	***	. 1◀	***				) † <u>a</u>	***	!-	***		***
MBELLA HICROCEPHALA	. 1	+ +	. e.	11	+ (	·a.	+ (	. •			. 0.	• • •	• 1	++		
CYMBELLA HINUTA FRAGILARIA CONSTRUENS	11	++	110	11	* * *	€-0	• • •	<b>Q.</b> 1		• • •	<u>.</u> I	***	11		11	***
IAGILARIA CROTONENSIS		+ 1	+ +	1	+ 1	•	+ 4			+ 1 1	•	<b>+ (</b>	1	+ +	1	****
FRAGILARIA PINNATA GOSPHONEMA ACUMINATUM	1 1	++	10	• •	++	<b>(4</b> )	. + +	<u>L</u> I		11	11	* * *	• •	. + +	11	
CHPHONEMA PARVULUM	1	++	++	1	++	1	++	,		++ 1	•	• •	ı	++	,	*
DOMPHONERA SP HELDSTRA ANDTOLIA	16	++	++	ı <del>-</del>	++	<b>Q</b> .Q	++	• 1		+ + a. i	11	••	1	* *	10	*****
ELOSIRA DISTANS	n C		•	٠۵.	• • •		• • •	0.		+	•	• • •	· (V	• • •	•	
GRANULATA	<b>a.</b>	٠+	• •	1	• •	ŧ	• •	•		+:	1	++	-	٠.	<b>a.</b>	*****
MELOSIRA CRANCLATA V ANGOSTISSIMA -	۱ ـــ	++	++	• •	+ +	• •	++			++	10.	<b>+ +</b>	• •	٠.	11	
A Margadon A motors	•	+ 1	+ 4	1	++		+ 1			+ 4	. 0	+ (	,	• •		+
NAVICULA EXIGUA V CAPITATA	•	• •		•	+	.۵.	• •			+ i <b>a</b> .	. •	+		• •		
AVICULA GASTRUM	,	+ (	+ +	•	+ 1	•	+ (	•		+	•	• •	<b>Q</b> .	+ +	,	****
AVICULA FUPULA	1		<b>.</b>	I	• •	16		•		٠.	α.		ı		1	*
NAVICULA RHYNCOCEPHALA V GERMANII		++	٠٠ اهر	11	+	LI	٠.	. ,				• •	1 1	• •	11	
NAVICE A SALENABLE V INTERNETIA	8	++	• •	•	++	•	++	•		++	•	+ +	ı	++	++	***
	•	. 4	. «	•		•	. 4	•								

TABLE H-7b (cont.)

										•					•	•
TAXAND41C CLASSIFICATION					ž	NUMBER	04 086	ANE SE	ORGANISMS AT STATIONS	TAT 10N						•••
	<b>.</b>	•	•		•	:	5	•	•	=	•	:	•	2	•	•••
	• :			4	7444	44444	•	•	• • • • • •	****	:	:	:		*****	•
							•	**	•		•	•	•	•		**
+ NITISCHIA FONTICOLA	1	+ +	+	H	• •	10		+ +	16	•	+ 1	1 (	+ (	11	****	• •
+ NITZSCHIA HOLSALICA	ایه	+ (	+ 1 a. 1	<b>0.</b> 1	++	20	-	• • • •	L I	• •	• •	, ,	+			
NITZBCHIA		+	+		•	. (		+ 4	1	• •	• •	•	+ +		•	• •
NITZBCHIA		++	++	• •	++	<b>L</b> 1	••	+ + L I		• •	• •	ı ı	• •			
+ NIIZSCHIA TRYBLIONELLA V VICTORIAE	,	. + 4	+ 4	1	++	1		<b>+ +</b>	<b>e</b> .	**	+ + 1	•	* *	,		• •
TILVECTIA OP  A STREMANDI SCUS SP	••	. + +	• • • • •	11	++-	116		++4	<b>e</b> ( )	***	++4	• • 1	• • •		***	* * *
		++-	1 1	• 1	• • •	. v 1		++		• • •		•	• • •		****	**
+ GURIAGELA SP + SYNEDRA DELICATISSIMA + SYNEDRA RUPPENS V FAMILARIS			• • • • • 1	111		L I I		****	<b>Q.</b> 1	****	••••	1 &	****	11		****
EUGLENCHYTA		*	• • • • •	•	<u>.</u>		•	•••••	•	<u>.</u> 	- • • • • • •	* * * *	• • • • •			
EUGLENA 3P PHACUS SP				<b>Q. I</b>	• • • • • •	<b>a.</b> I			1 %	· • • • • • • •	<b>G</b> .1	11	*****	11		*****
200FLAGELLATE8		•	!		•••		•	****		<u> </u>	••••		• • • •			
UNID CILICPHORA	2	****	+++++ 1	1	****	<b>C</b>		+ + + + L	1	• • • •		_		•		• • • • •
ROTIFERA		<u>:</u>	•••••		•••••			****		****	*****		*****			* * * * * *
UNID ROTIFER		++++	• • • • •	• :	****	ı	••••	+ + + + ¹	4 - 2	• • • • •	1	:	****	1		*****
••••••••••••			*		·			•	•	•						

TABLE H-7b (cont.)

	11 + 12 + 13 + 14 + 15 + 16 + 17 + 16 + 19 + 000000		53 + *****	32 + ****	
	-	<b>!!</b> ,	++1	. + +	
TAKONCMIC CLASSIFICATION + STATION:	:		36 ++	D. N	:
	٠	<b>!!</b>	++4	++	•
	11	**	•	17	•
74730	٠			++	•
4 8	2	iii	n	36	***
NUMBER OF ORGANISMS AT STATION!	٠			• • •	+
ORGAN	5		ã	ă	***
0	٠		*** ***	34 4 +	+
(CM BE	:		Ä	Ö	***
	٠		* + + · %	* + + %	+
	2	***	œ	n.	•
	•		\$ \$	¥ + + +	+
	2	<b>:</b>	•	••	
	٠		+ <del>-</del> + + + + + + + + + + + + + + + + + + +	÷++	+
	=				
•••	• •	•	++	+++	+
		***			
TAKONCMIC CLASSIFICATION			TOTAL NUMBER OF DRGANISMS		
701.41			ORCA	TAXA	444
CLASS		::	ė s	ę.	1
U N		***	NCABE	NUMBER OF TAXA	4444
AKON			7		
		::	¥		
		**			3

## APPENDIX I ZOOPLANKTON

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TABLE I-1a

TAXGROWIC CLASSIFICATION + NUMBER OF ORGANISMS AT STATION:	• • • •			NUMBER OF	OF ORGANI	NAGANI SMS AT STATION:	ATION:			
	_	8	n	•	<b>1</b> 0	•	•	•	•	0.
V QDdBdD)									•••	
CALANOIDA	• • •		• • • •	• • •	• • •	• • •	• • • •	• • • •	•••	
DIAPTCPUS MISSISSIPPIENSIS			=	<u></u>	ı • • •	,	•••	•••	1	
CYCLOPOIDA	••		••	•••	•••	•••	• • •	••	• •	
CVCLOPEID COPE>DDITES CVCLOPS SA MESOCVCLOPS EDAX	<b>2</b> · •	<b>g</b> ''		8 <u>n</u>	9 <u>m</u> •	gn ,	£, ,		8m	00
TROPOCYCLOPS PRASINUS	•••		•••	•••	•		1	•		•
HABBACTICN TO	•••		•••	•••	• • •	• • •	•••	• • •	•••	
ATTMEVELLA SP MAAPACTICNIN COPEPNOITES	11		••••	••••	••••	••••	•••	••••	11	
1 1 Tan 144	98	•	•••••	* m	 23	5 MS	312			273
CLADOCERA A CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONT										
ALONA SP HTS#1%A LOWGINDST#1S CAMPTCF#CUS SP	121	<b>18</b>	<u>'3</u> '	12	101	1 M 1	182	' <u>"</u>	·£'	<b>'</b> Ξ'

TABLE I-la (cont.)

TAIGHENIC CLASSIFICATION	•••				4	10mbER	8	RCANI	NUMBER OF CHEANISHS AT STATION:	STAT	: WG 1					
	-	•	•	n	•	•	٠	•	•	•		•	•	•	•	9
	<b>::</b> .	•			:: ::		****		<b>::</b>	111		e 1	••••		•••	11
nabbala sy Diabbangsoma brachyväum Moina sp	• • • • • • •	•••••	- 121		• • • • • •	2 111	• • • • • •			• • • • • • • • • • • • • • • • • • •	e 111	•••••		2 ''' .	• • • • • •	191
ROTIFERA		•••••			•		•••••	•	•		•		•	•	•	•
ASCOUCHEN SP AST ANCHYN PRICOCNIA PRACHIFLY ANGULASIS	••••	••••	<b>‡</b> 11		• • • • •	121	****		• • • • •		• • •	••••	111	i R	••••	• • •
biorigi an Acted Biocharde	· ·	٠.	, ca	412	• •	c c	••	C ¥ P	170	••	***	104	٠.	-	• •	•
MP ACTIVITY SPORTS	275		1025	235	•••	127	•••	16	***	***	247	153	+++ im	25.2	•••	٦,
COMOCHIUS UMICOMMIS FUTURANTS SP GASTAPPUS SP	2 ' B		' ' %	<b>5</b> 1 1	****	611	• • • •	<b>h</b> i i	N 1 W	• • • •	110	••••	• • • • • • •	•••	••••	121
HERADIPOR SJ Hellicita Cichlebbis	150		2865.	132	****	130	••••	100 100 100 100 100 100 100 100 100 100	122	••••	370	•••	1 00	122	****	10-
KERATELLA SP NOTOWEATA SP IN ATVIAS PUADICORNIS		• • • •				111		121		••••	+ 1 +		• • • • • • •	111	••••	1 * 1 -
PLFUSOWA MUNGWI PRLY RETMA VULGANIS SYNCHARTA SP	237	• • • •	8000	700	****	1 8 9		233	1330	••••	2 9 9 2	~ <u>°</u>	**** '2 <u>8</u>	115	••••	34-
UNIDENTIFIER HOTIFERA		• • •	•	•	• •	•	• •	80	•	<b>* *</b>	٠	٠.	• •	2	• •	2

TABLE I-la (cont.)

TAKENEWIC CLASSIPICATION				NUMBER	F ORGANI	NUMBER OF DRGANISMS AT STATION:	1710N:			
	-	~	n		'n	•		c	•	0.
#UZCLDE&										
DIDINIUM SP (PROTOZOAN) UNIDENTIFIED PRCTOZOAN) UNIDENTIFIED COLONIAL PRCTOZOAN	111 9 N	, ø , ø , ø , ø , ø , ø , ø , ø , ø , ø	111 <b>4</b>	111 0	111 0	111 •	C 1 1 N E O	F1 1 # W	411 0 6 8	8 0 10 E
E SCRIL P S. P.									•	•
HYDRA SP (CCELENTERATE) NEVALORATIFIED OLIGOCHAETF	001	111	111	151	111	111	111	111	111	111
TOTAL NUMBER OF DEGALISMS	2669 . 3604	300	9868	1.40	213	60 -	2134 1505 4251 2757	27.57	9 9	0.0

TABLE I-1b

TAKENEMIC CLASSIFICATION +				NUMBER	NUMBER OF DRGANISMS AT STATION:	AN ! SMS	AT STA	T10N:			
	=	21	£	. 13	•	٠	•	•	6		
				***	***		•			+0++++++++++++++++++++++++++++++++++++	
◆ ◆ ▼ COM 3460 >			• • •	• • •	•••	• • • •	• • •	•	• • •	• • •	
CALANDIDA			•••	•••	• • •	•••	• • •		• • •	• • •	• • •
OLAPTCPUS MIESISSIPPIENSIS +	8	163	•••	• • •	•••	• • •		1	1 • • •	•	•
• CVCLOPG1 D.A		••	••	•••	••	••	••		• 4	••	••
CVCLORGIO COREPODITES + + CVCLORS SP + + FOCVCLORS FDAX + +	2N 1	100	<b>4-1</b>	<b>N</b> 1 1	••••	••••	••••	211	2	•••	
TRGPOCYCLOPS PRASINUS	•	1	•••	• • •	• • •	• • •	• • •	•	'	•	•
MAMPACTICOTO +			• • •	• • • •	. • • .	••	• • •				• • • •
ATTNETFELA SP MARHACTICGIC COPEPODITES	• •	11		B 1	• • • • •	. + + • •	11	11	• • • • •		
MALDE I I	2	<u>.</u>		<u>n</u>		 8	7	<b>Ø</b> €: ₹	 		
CL ADD CERA		• • • • • • • • • • • • • • • • • • •	•••••	•••••		•	• • • • • • • • • • • • • • • • • • •	•	• • • • •	• • • • • • • • • • • • • • • • • • •	• • • • •
ALONA SP BOSWING TONGINOSTRIS	NS 1	'8' '8'	•••••	4 • • • •	••••	***** !#!		1 gr 1	' <u>2</u> '	• • • • • • • • • • • • • • • • • • • •	
CERTODAPHMIA SP CHYDDAUS SP CAPMIA SP	0	200 200 200 200 200	- <b>-</b> 01		• • • •	161	111	***	161		
OLABHANGSORA BRACHVELS	110	\$'\$	••••	••••	• • • •	• • • •		• • •			

TABLE I-1b (cont.)

TAKCHCHIC CLASSIFICATIN				NUMBER OF	OF SAGA	DRGANISMS AT	AT STA	STATION:		•	NUMBER OF DRGANISMS AT STATION:
•	=	2	13		9-	•	•	•	•		
4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		•				•••••			• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	
+ ASCOMORPIM SP + ASPLANCINA PHIDDONYA + UDACHICNIS ANDILANIS NOACHIONIS CALVETE DHIS	- 20 1324		***	NQ 1 (	1 N.C	••••	111	NI I	•••••	••••	*****
	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	'	No E11	:		• •••••			- E		
HEXABTHRA SP HELLICTTIA SP HELLICOTTIA SP HOTOWATA SO PLATTIAS QUADICORNIS PLATTIAS QUADICORNIS PLATTIAS QUADICORNIS PLATTIAS QUADICORNIS UNIDERTIFIE HOTIFERA	19= 111 18h h	110 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	119 111 120 -	++++++++++++++++++++++++++++++++++++++				120 111 405 1	1		
PROTOZCA OIDIMIUM SP (PROTOZOAM) UNIDENTIFIED PROTOZOAM UNIDENTIFIEC CILCMIAL PROTOZOAM VORTICFLA SP	*11 g	111 1	, , , , , , , , , , , , , , , , , , ,	4111	7 <u>6</u> 1 1	•	11 p	416 4	10E 20		

TABLE I-1b (cont.)

	••									
TAKCACALC CLASSIFICATION	• • •			MARRIE	OF TREAM	NUMBER OF TREANISMS AT STATION:	A T 1 0 W.:			
	=	?!	:	•	•		•	•	• • • • • • • • • • • • • • • • • • • •	•
	• • • • • • • • • • • • • • • • • • • •									
MISCELLANFA			****	••••	••••	. • • • •		••••		
	111			•••••		114		1 1 6	**************************************	
TOTAL MUMBER OF TAXA  **A 15	7 7	\$ h	802	F =	5 0	416 416 416 416 416 416 416 416 416 416	<u>.</u> .			

TAR! F 1-2a

C

LAKE SEMIMOLE WATER QUALITY MANAGEMENT STUDY - ZDOPLANKTON (DRGANISMS/100 L)
CORPS OF ENGINEERS (CONTRACT DACVOI-78-C-0101) PHASE II. CYCLE 2 (4/2-4/1979)
*** PASS TWO - CODED DATA USED/STATIONS NOT COLLAPSED

TAXONOMIC CLASSIFICATION				NUMBER	NUMBER OF ORGANISMS AT STATION:	SMS AT ST	TAT ION:			
	-		n	•	w ·	۰		·	•	• 10
***	***	***		**************************************		* * * * * * * * * * * * * * * * * * *				
COPFFODA		• • • •		• • • •			. • • •	. • • •	. • • •	•••
CALANDIDA		•••		•••		•••	• • •	•••	• • •	•••
DIAPTONUS MISSISSIPPIENSIS	N	,	1	N	2	^	++	•••	~ •••	•••
CYQLOPCIDA		***		•••		• • •	· <b>.</b> .	•••	• • •	• • •
CYCLCPOID COPEPONITES CYCLOPS SP MESOCYCLOPS EDAX	641	0 h i	~_1	<b>≛</b> nı	601 6m	240	+++ 5=1	+++	<u></u>	n '
HARPACT ICO ID				•••		•••	• • •	•••	•••	• • •
UNIDENTIFIED HARPACTICDID	1	'	•	1	1	٨.	1	•••		•••
MAUPLEE	0 -	<u>r</u>	ñ 4	9 N		739	787			
CLADGCERA				•		**************************************	* * * * * * * * * * * * * * * * * * *	• • • • • •	• • • • •	••••
A_ON A_SP_CAGIROSTP1S CFRIGATION SP	1 2 1	i m i	181	1 🕏 1	181	121	1284	100	1921	1881
CHYDORUS SPHAFRICUS CHYDORUS SP DAPHNIA SP	115	110	110	110	110	1 1 5	112	110	••••	++++
DIAPHANDSOMA BRACHYURUM MOLOPEDIUM AMAZCHICUM MOINA SP	111	111	111	111	2''	111			•••	•••

TABLE I-2a (cont.)

TAXCHOMIC CLASSIFICATION	• • • •			NUMBER OF	OF ORGANI	ORGANISMS AT ST	STAT ION:			
	-	~	,		*	•		•		01
GSTRACODA		• • • • •	• • • • • •	•	•	•				
UNIDENTIFIED OSTRACOD		1					i,	,		
ROTIFERA										
ASCONDRPHA SP ASPLANCHNA PRIDDONTA PRACHIGNUS ANGULARIS	ımı	'ñ'	10,	101	191	111	lm:	1 ~ 1 10 10	1 <u>~</u> 1	191
BRACHIONUS CALYCIFLORUS BRACHIONUS SP CHROMOCASTER OVALIS	N I I	111	111	111	111	111	112	114	n'e	±12
CANDCHILUS UNI CORNIS EUCHLANIS SP GASTROPUS SP	<b>3</b> 11	₩ ₩	911 88	818	544	3373	7317	300	60	1025
KELL ICOTITA LONGISPINA KELL ICOTITA SO KEPATELLA COCHLEARIS	i in	518	<b>1</b> 011	128	256	320 457	1203	220	N 1 6	\$1 N
LECANE SP PLEOSOWA HUDSONI CLYARTHRA VULGARIS	115	116	116	115	1 1 60	115	110	250	1 2 2	1 h =
SYNCHAETA SP TRICHOCERCA LONGISETA TRICHOCERCA SP	118	111	111	11-	111	116	110	<b>*</b> * '	210	****
PROTOZOA					•					
OTOTHIUM SP (PROTOZOAN)	1	· · · · · · · · · · · · · · · · · · ·	1	1	,	,	1	,	<b></b>	
**************************************	******	******	******	*******	*******	********	********	******	*******	*******

TABLE I-2a (cont.)

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• WCINEDIANGE TO DERIGHT	•••			K LBY OX	NUMBER OF CREANISMS AT STATION:	SMS AT SI	7AT 10V:				
•	· ·	**	n •	•	•		•.	•	•	•	2
			• • • • • • • • • • • • • • • • • • • •					• • • • • • • • • • • • • • • • • • • •			
MI SCELLANCA						****	****	••••	****	••••	٠
MENATODA UNIDPWTIFIED OLIGOCHAETE	11	1 1	11	11	11				••••		• •
TOTAL NUMBER OF ORGANISMS NUMBER OF TAXA	£	, , , , , , , , , , , , , , , , , , ,	7	120	107	, 502 , 502 12	6 6 6	2	;	·	2665

TABLE I-2b

LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY - ZOOPLANKTON (DRGANISMS/100 L)
COAPS OF ENGINEERS (CONTRACT DACWD1-70-C-0101) PHASE II. CYCLE 2 (4/2-4/1979)
*** PASS TWO - COREN DATA USED/STATIONS NOT COLLAPSER

TAXBNO41C C. ASSIFICATION					NCE	ER OF	ORGAN	ISMS	NUMBER OF ORGANISMS AT STATION:	T TON:				
	=		•	:	+ 15	•	•	+			•	6	******	
`\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$					**	***	ii ii			***			
COPTPOOA		****	••••		• • • •	• • • •		••••	· • • •	***	••••		***	••••
CALANGIDA		* * •	• •		• • •	* * •		••	~ <b>~</b>		* * •			•••
DIAPTOMUS MISSISSIPPIENSIS		• • •	• • •	1	•	• • •	t	• • •	1	•	•••	1	*******	
CYQOPOIDA		++	* * •		•••	++			~ <b>*</b> •		**	•••		•••
CYCL DP010 COPEPONTES	<b>.</b>	<u> </u>	• • •	•	2	• • •		• • •	N	<b>9</b>	• • •	•	****	
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HARPACTICNIO		••	••		••	++		• •	- ◆		++			
UNIDENTIFIED HARPACTICNID	•	• • •	• • •	•	•		1	• • •	1	1	<b>* * </b> •		*****	•
NAUPLII	£	,,,,,,	• • • • •	:	\$ \$ 1		•		1	2		yn N	# # # #	
CLADGCFRA			• • • • • • • • • • • • • • • • • • • •	•••••	*	• • • • • • • • • • • • • • • • • • • •	*****	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		••••••			•
ALONA SP BOSMINA LONGIROSTRIS CEPIODAPMIA SP	101	ND	•••••	101	121	• • • • • •	nnı	• • • • •	111	160	•••••	121	**************************************	*****
CHYDCPUS SPHAFRI CUS CHYDCPUS SP DAPHNIA SP	111	1-1	****	121	<u> </u>	****	111	• • • •	111	110	****	111	**************************************	
DIAPMANDSOMA BRACHTURUM WOLDPETIUM AMAZONICUM WOINA SP	111	111	• • • •	114		• • • •	111		111	111	• • • •	111		

TABLE 1-2b (cont.)

TAKOMONIC CLASSIPICATION				MERCH	OF ORGANISMS AT	**************************************	**************************************		NUMBER OF GREANIBER AT STATION:	
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		· • • • • • • • • • • • • • • • • • • •				***		• •	• • • • • • • • • • • • • • • • • • • •	•
OSTRACTION	••••	•		*****	•			•	• • • •	
. UNIDENTIFIED DSTAACDD	1	•	l		n		1	,		
MATIFERA										
ASCONDENA SP ASCONDENA SP ASPLANCHIA SPINDOYTA DRACHIONUS ANGULANIS	01	12-	181	121		101	1390	1101		
+ CHACKTONUS CALVCIPLOSUS + BRACKHONUS SP + CHRONOGASTER OVALIS	212	**** ****	I MA	ıng	111	<b>W</b>   1	<b>5</b> 1 <u>-</u> 2	*1 <u>#</u>		
CONDUCTION UNICORNIS CONTINUES ON CONTINUES CONSTRUCTOR OF	2	~ · · · ·	<b>9</b> 11	<b>611</b>	<b>4</b> 11	1 10 1	208	50 i		
+ KFLL ICOTTIA LONGISPINA + KFLL ICOTTIA SP + KERATELLA COCHEAPIS	1 185	112	116	115	110	118	1 1 0a 10 6	110	***	
+ LECANE SP + PLEUSGWA MUDSONI + POLVARTHRA VULCARIS	186	-18	114	112	111	111	120	1 <b>%</b> 5		
STATEMENT BP TO STATE TO STATE TO STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE ST	<b>g</b> nı	<u>N</u> 11	ınn	<u> </u>	<b>911</b>	111	Bro Cr	<u>-</u> ~-		****
P#01020A							•			•
. oininium se (PROTOZOAN)	ı	ı	<b>4</b>	'	r, #		•	1		

TABLE I-2b (cont.)

TABLE I-3a

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LAKE SEMINDLE WATER GJALITY WANAGEMENT STUDY - ZONPLANKTON (ORGANISWS/100 L.)
CORPS OF ENGINEERS (CONTRACT DACWD1-78-C-0101) PHASE II. CYCLE 3 (6/4-6.1979)
*** PASS TWD - CODED DATA USED/STATIONS NOT COLLAPSED

TARDAGE CLAGAR TOTAL	UND AD ADERIA			NUMBER OF ORGANISMS AT STATION:	NUMBER OF DRGANISMS AT STATION:	SMS AT ST	64.0		•	•
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VOC £3600	• • • •				•••		•••	•••	* • • •	
• CALANDIDA	•••		•	• • •			•••	•••	• • •	
+ OTAPTOWNS MESSINSTRANTS	437	2'	21	2	21	<u></u>	161 1	<b>3</b> 1	12.	; i
CACLOPO134							•••	•••	•••	
+ CYCLOPAID COMEGIDATES - CYCLOPAIS SA + EDGASTES SA	262 263	8 4 4 8 4 4 8 4 5 8 4 5 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6	80 1	227	0 E -	# a l	871	122	6	NEW C
* MESHCYCLIPS BAASINUS	<u>.</u>	200	<u></u>	791	200	ς, •	0 <b>5</b>	9 '	23.2	8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
* VIAGB ACT ICS IS	•••		•••	• • •		**	• • •	•••	•••	
+ MARPACTICATO COMEDANTES + UNIDENTIFIED MAPPACTICATO	11	11	11	11	11	11	11	11	11	11
MAUPL I	8 8 8 8	8	# 25 T	1522	9	1574	 1023	20 <b>4</b> 0	2058	2607
CLANDERA										
* ALONA SP * ACONA SP * ACOS INA LUMEI BOSTRIS * ROSMINUPSIS OF ITERSI	1017	1520	1951	121	1987	212	231	imi N N	211	121
+ CERIODAPHILA SP + DAPHILA SP + DAPHILA SP	250	mo i	8 <u>8</u> 1	181	21%	gg I	 	เลา	111	= <u>2</u> 1
+ DIAMIA-105044 FRACHTPU4 + HOLUPETIU4 AHAZO4ICU8 +	0 m	56	uŭ.	00 00 00 00 00 00 00		2. <u>2.</u>	F.O.	N.D.	<b>"</b>	NØ NØ
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TABLE 1-3a (cont.)

TAMBMONIC CLASSIFICATION				#2# <b>2#</b>	OF CREAKI	**************************************	AT 10H:			
			7		•					•
			•							
+ ASCOMORPHA SP + ASPLANCHMA PRIDODUTA + BFACFIONUS ANGULARIS	121	191	191	191	••••	101 M	114	500	150	151
- APTCHIDNUS CALYCIFLOBUS - BRACHIDNUS PORFICULA (7=4 MGULARIS) - BPACFIDNUS MAYAMARNSIS	111	111	111	111		111	121	221	100	' <u></u> ='
BRACHIONUS QUADRIDEVTATA     BRACHIDNUS SP     CHRT 4004 STER CV4_1 S	111	111	111	111	••••	111	1.00	111	2 2	110
+ CENTURES SP + CELENTAS SP + CELENTAS SP + TELENTAS SP	611	P P P	111	911	₩ 1 1		211	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	615	<b>9</b> ''
GASTROPUS SP + CASTROPUS MYSTOPUS + PEXARTIFA 40	111	111	111	111			111	111	2'8	g'2
HELLICOTIS SP HERATELA COCMEARS REFRELA SEFRULATA	- <del>2</del>	191	We 1	191	'ā'	121	191	171	161	191
KERTTELLA SP LECTIE 37 PLATYIAS PATEUS	111	111		••••		111	114	111	111	<b>m</b> 1 1
* PLECAGUA MUGGONI * POLY ARTHRA VULGARS * SYNCHARTA AP	191	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	(1)	181	Ng	111	1 M 1	171	9 T R	=# ·
+ TRICHUCERCA LONGISETA + TRICHUCERCA SP + TRICHUCERCA SPP	111	<u></u>	111	'R'	••••	111	111	111	119	161

TABLE I-3a (cont.)

TABLE 1-3b

LAKE SFMINNLE WATER OUALITY MANAGEMENT STUDY - 70NR ANKTON (UKGANIEWS/100 L)
CCRPS OF EMGINEETS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 3 (6/A-A.1979)
eee PASS TWO - COPEO DATA USED/STATIONS NDT COLLAPSED

TAKCHOUT C CLASSIFICATION				ž	TER OF	. OPGANI	NUMBER OF OPGANISMS AT STATICA	TATICH:			
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DIAPTCHUS MISSISSIPPIRESTS	21	200				Φ 1	N 1		<u>n</u> :		•••
4010601DA		. • •		• • •	• • •		•••	• • •	•••	•••	•••
CVCLOPCID COPEWOITES CYCLOS 4P ETGASILIS SP	940	104	g''	••••	**** ***			NN I	>	521	
MESOTYCLOPA EPAX Tanuncyclops Phasimus		5'		***	11	• •	• • • •	• • • •	• • •		• • • •
MARPACTI CCTO			• • • •	•••	• • • •		• • • •	•••	•••	• • •	• • •
MARRATIFIED COPFONDITES	••	18		• • • •	11	• •	<b>≈</b> 1	• • • •	••••	••••	• • • • • • • • • • • • • • • • • • • •
	1 261	F 60 8	-	. • • • •	••••••	102	72		2 <b>4</b> 6		•
CLADOCERA		• • • • •	•	: : :	•••••• •	•		• • • • •	•	•	•
ALCHA SP CHGIPD STRIS ROSVINGES GETFOS	126	20 c c	1.53	••••	100	1 F 4 20 20	****	101	126	1 m 3	
CRETOCAPIVIA SP CAPIVIA SO CADIVIA SUR	es 1	!!!	! <u>!</u> !	••••	* * * * * % i i	• • •				***	• • • •
DIAPHALTONA BHACHTURUN MOLDPEDIUM AMAZONICUM	830	81	930	•••	· • •	0 1	₩ •••	***	# · ·	* F.	

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TABLE 1-3b (cont.)

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TABLE 1-3b (cont.)

TARENDUS CO ASSIFICATION	NLEARER OF DECENERS AT STATICA:			Z	LMUER	NLMDER OF OPGANISMS AT STATICK:	25.2	A1 ST	411Ch:			•		
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TGTAL MUMBER OF DRGANISMS	7601 • 16010 • 7651 • 727 • 6634 • 103 • 66 • HuG7 • 5257 • • • • • • • • • • • • • • • • • • •	0.001	7 0 5	· · · · · · · · · · · · · · · · · · ·	2 2	7.00	•	103			MUG7		7 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
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TABLE I-4a

LAME BEHINGLE MATER BUALITY MANAGEMENT STUDY - ZODPLANKTON (ORGANISHS/100 L)

COMPS OF ENGINEERS (CONTRACT DACHOI-78-C-0101) PHASE II, CYCLE 4 (7/16-19/1979)

*** PASS TWO - CODED DATA UBED/STATIONS NOT COLLAPSED

TAXONDHIC CLASSIFICATION			NCHBER	DER OF DR	OF DRGANISMS AT STATION	T STATION				
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CALANUIDA DIAPTOMUS HISSIBSIPPIENSIS	ž	*	43	**************************************	* * * * * * * * * * * * * * * * * * *		588	53	310	971
CYCLOPOID COPEPODITES CYCLOPS FA MESOCYCLIPS EDAX TACPOCYCLIPS PRABINUS	E	oom i	### I	- 10.4 1 - 20.4	p14 1	\$1\$ 1	<b>6</b> VV 1	mn⊸ 1	n-4	######################################
NAUPL I I	****** %	786	*	ž	4	267	\$ 9 9	510	1269	971
CLADGERA		•	• · · · · · · · · · · · · · · · · · · ·						••••	* * * * *
BOSHINA LONGINGSTRIS BOSHINGSTRIS DETTERSI CERIODAPINIA SPITERSI DAPHNIA SPITERSI DIAPHNIA SPACHYUMUM MOLAPEDIUM AMAZONICUM PLEUROXUS SP	22.21	4ng (8) ()	410 188 11	416 166 11	M 6 11	4 (8) 8899 (1)	2	87 B8 11	WU- 4 WIE 44 WOV 164 11	

TABLE I-4a (cont.)

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OSTRACODA	***	••••	***	****	• • • •	++++	***	****		
UNIDENTIFIED OSTRACODA		1			• • • • •			· · · · · ·	1	
ROTIFERA			<u>*</u> • • •		• • • • • •	•	• • • • • •			
ASCONDAITIN SPECIONIA ASPLANCTINA PRICOCNIA BRACHICANIS ANGULAIS	' ' ' ' '	111	f I I	• • • • •		11=	. <del>.</del> .	111	143	+ <del>2</del> 1
BRACHIONUS CALYCITLONUS BRACHIONUS FORFICULA (?=ANGULARIS) BRACHIONUS HAVANAENSIS	• • •	1 . 1	111	111	• • • • •		11#	1000	1 163	1100
BRACHIONUS OUADRIDENTOTA DRACHIONUS SP CHROHOGOATER DVALIS	110	181	111			****	146	112	111	111
CONOCHILOIDES SP CONOCHILOS UNICORNIS EPIPHANES SP	110	12/21	, Š.	181	. 64	101	101	669	1948	9143
FILINIA LONGISETA PILINIA :P GASTROPUS SP	8,15	199	111	<b>D</b> 1 1		110	118	111	226 524	33
GASTROPIN HYPTOPUS HEXARTHAN SP RELLICOTIN LONGISFINA	, 1 1	182	1-0-0	180	***		116	1000	310	111
KERATELLA COCHLEARIS KERATELLA SERRULAIA KERATELLA SP		3'4	3,72	<b>6</b> 11	<b>8</b> 11	표11 ²	220	2000 0000	123	

TABLE I-4a (cont.)

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TABLE I-4b

LAKE SEMINDLE WATER GUALITY MANAGEMENT STUDY - ZOOPLANKTON (ORGANISMS/100 L)
CORPG OF ENGINEERS (CONTRACT DACUCI-78-C-0101) PHASE II, CYCLE 4 (7/16-19/1979)
*** PASS TWO - CODED DATA USED/STATIONS NOT COLLAPSED

TAXONDHIC CLASSIFICATION	+++			NCHB	FR CF. C	NUMBER OF ORGANISMS AT STATION	ts AT	STATION	7				
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	***		*		************		•	*****	• [• • ] • • •	·	****	***	*******
COPEPIDA	÷ • • •	<u>.</u>	****	-++++ - - - •	*	••••	• • • • • • • • • •	* * *	**************************************		• • • • • •	* * * * * * * * * *	•
CALANIIDA DIAPTOMUS MISSISSIPPIENSIS	508	=	****	****	n	****	. + + + +	ı		1	267	132	
CYCLOPOID COPLPODITES CYCLOPS 13P FESGCYCLIP'S EDAX TROPOCYCLIP'S PRASINUS	88° 1	000 1	*****	44444444444444444444444444444444444444	50 I	*****	1001 1	<b>c.</b> i i		+++++++++ l	00° 1	1 556	*** * * * * * * * * * * * * * * * * *
NAUPLII	1334	<b>8</b>	+++++	۶۰۰۰۰۰	σ	*****	***** 8	::	****	*****	698	258	••••
CLADGCERA	• • • • • • • • • • • • • • • • • • •		• • • • •	 <u>.</u>		• • • • •	•••••	• • • •	<u>:</u> :	****	•	• • •	• • • • • • • • • • • • • • • • • • •
BOSMINA LONGIROSTRIS CERIODAPHNIA SP DAPHNIA SP DIAPHNIA SP DIAPHNIA SP DIAPHNIA SP DIAPHNIA SP PLEUROXUS SP PLEUROXUS SP	1933 1933 100	811 GW 7H	******	203 203 37 4 46 44 44 44 44 44 44 44 44 44 44 44 4	프라 INI <b>4</b> 1	4 (1 (1		& 11 10-1 m;	• • • • • • • • • • • • •	ا ۱ ۱۱۱ ایم ا	1134 1134 1134 1134 1134 1134 1134	27.7 1.00 1.00 1.00 1.00 1.00	

TABLE 1-4b (cont.)

TAKUNDAIC CLASSIFICATION	• • •				NUMBER	8	ORGANISMS	4	STAT 10N1	ï				
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+ UNIDENTIFIED OSTRACOOA	1		****	ı		****	• .		****	1		****	1	
ROTIFERA	• • • • •	<u>.</u> • • • • • • •		•		• • • • • •		• • • • •	•••••		• • • •	• • • • •		
+ ASCOMORPHA SP + ASPLANCHWA PRIODONIA + BRACHIONIS ANGULARIS		' <b>6</b> '	• • • • • •	1623	യ്ക്ക	• • • • • • :	2042	: ; u∾i	• • • • • • :	10-0		• • • • • • • •	770	
+ BRACHIONUS CALYCIFLORUS + BRACHIONUS FORFICULA (?=ANGULARIS) + BRACHIONUS HAVANAENSIS		m::		4078	<b>10</b> 11	+++	1736	NO.		101	400°C	***	0.7.0 0.4.0	
+ BRACHIONUS QUADRIDENTATA + BRACHIONUS SP + CHROMOGASTER OVALIS	111	++++	++++	123	141	++++	<u>.</u>	1 (0.0)	• • • •	111	111	• • • • •	111	
+ CONDCHILLIDES SP + CONDCHILLIS UNICORNIS + EPIPHANES SP	5933	1991		44 044	1001	***	167	1 <u>41</u> :	+++	101	3541	• • • •	160	***
+ FILIMIA I DWGISETA + FILIMIA SP + GASTROPUS SP	7.38	1 1 82		1166	'' <b></b>	• • • •	<b>4</b> +1	110	+++	111	1165	• • • •	223	
+ CASTROPUS HYPTOPUS + HEXARTHRA SP + KELLICOTIA LONGISPINA	111	· + + + ·	• • • •	111	111		4470 BB	1011	• • • •	!+++: !++!	181	• • • •	155	
* HERATELLA COCHLEARIS + MERATELLA SERRULATA * "ERATELLA SP	5%3 17.H	<b>10</b> 11	 • • • • •	600	181	• • • •	2400	121	• • • • •	N11,	~~ <u>~</u>	• • • •	mo i	
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TABLE I-4b (cont.)

TAXANDAIC CLASSIFICATION	•••				NCEDE	8	NUMBER OF ORGANISMS AT STATION:	SMS	AT STA	T 10N:					
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MERALECTA SPI LECANE LUNA PLATAS PATULUS	110	1 m	++4	ım	600 ++4	***	' 9	+++	- th	• •	• • •		• • •	**+ 	
PLATVIAS GUADICORNIS PLEOSOMA HUDSONI POLYARTHHA VULGARIS	- 4E9	1 1 gg	****	231	114	****	111	***	110	111	* * * *	17.0	++++	****	• • • • • • • • • • • • • • • • • • •
SYNCHAETA SP RICHOCENCA LONGISETA TRICHOCENCA SIMILIS	1 66 1	<b>79</b> 11		211	111	****	<b>4</b> 11	****	111	<b>-0</b> 11	****	76	m 1 1 1	****	• • • • • • • • • • • •
TRICHOCENCA SP	0E		***	ci	e :	***	•	***	+ + + ;	•	***		o N	***	
######################################	******	- - - - - - - - - - - - - - - - - - -	<del>-</del> +++++		* * * * * *		• • •	• • • • • •	· · · · · · · · · · · · · · · · · · ·		• • • • • •		*****	*****	
CHAOBORUS SP ENTEROMDISPHA SP HYDRACAR (NA	• • • • • •	+++++	• • • • • •	mıı	m::	*****	114	*****	& I I	<b>6.11</b>	*****	111	+++++	******	***
TOTAL NUMBER OF CROANISMS NUMBER OF TAXA	11858 + 1348 + 11093 + 323 + 11179 + 170 + 29 + 7703 + 2125 + ***********************************		++++++ 	11093	323	÷	11179		200	• 16 •	£ =	7703	2 2	## ## ## ## ## ## ## ## ## ## ## ## ##	

TABLE 1-56

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081fiACDBA						<u>.</u>				
WIDENTIFIED GETACOON	•••••	1	1	•	•	1	1	ı	ı	1

TABLE I-5a (cont.)

### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PROTICERA  ### PR	TARRACULE CLASSIFICATION				MICHER	INE ORGANI	ORGANISMS AT STATION:	AT 10M:			
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TABLE 1-5a (cont.)

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TABLE I-5b

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LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY - ZODPLANKTON (DRGANISMS/100 L)
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 5 (8/13-16.1979)
*** PASS TWO - CODED DATA USED/STÁTIONS NOT COLLAPSED

TAXONOMIC CLASSIFICATION			Ž	NUMBER OF C	ROANISMS	ORGANISMS AT STATION				
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TABLE 1-Sb (cont.)

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TABLE I-5b (cont.)

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TABLE I-6a (cont.)

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TABLE I-6a (cont.)

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	**************************************		<b></b>											
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TABLE I-6b

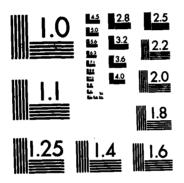
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TAXONCHIC CLASSIFICATION				NUMBER O	NUMBER OF DREAKISMS	AS AT STATIONS	1710M:			
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COPERCOA	••	•		••	••		•••	•	••	••
CALANDIDA	••	••		•••	•••					••
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TABLE I-6b (cont.)

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WATER QUALITY MANAGEMENT STUDIES LAKE SEMINOLE FEBRUARY-DECEMBER 1979 PHASE II(U) WATER AND AIR RESEARCH INC GAINESVILLE FL DEC 82 ACF-80-11 DACW01-78-C-0101 F/G 8/8 AD-A123 446 6/8 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

TABLE 1-6b (cont.)

TAXONCHIC CLASSIFICATION + NUMBER OF DAGANISMS AT STATION:					3	5	1	I	,	NUMBER OF CACANISMS AT STATIONS						
	=	11 + 12 + 13 + 14 + 15 + 16 + 17 + 10 + 19 + 600000	. •	2	= :	•	=	•	•	=		=	•	2	•	••••
			<b>.</b>			₩.		<b>#</b> .			<b>::</b>		<b>!!</b> .			
TOTAL AUMBER OF DRGANISMS	<b>2.</b>	0961	••••	502	2363	• • • •	9726	***	9 9	181	444	2 :	***	3250		****
													•••			

TABLE I-7a

CORPS OF ENGINEERS (CONTRACT DACUDI-78-C-0101) PHASE II, CYCLE 7 (12/3-6,1979) *** PASS TWO - CODED DATA USED/STATIONS NOT COLLAPSED

+ TAXONOMIC CLASSIFICATION	•••	٠	NUMBER	8	ANISHS A	ORGANISMS AT STATION				
****	++++	N	m AAA	•	n	•	^	œ	•	
			** ** ** ** **	** ** ** **				***		
CALANDIDA + DIAPTORUS MISSISSIPPIENSIS	<b>*</b>	7	<b>8</b> 2.	e	çi B		n 9	3	<u></u>	
CYCLOPOID COPEPODITES  CYCLOPS SP  CYCLOPS SP  CYCLOPS SP	<b>7</b> ~	<b>6</b> .5	24	81	300 300	E C	<b>2</b>	3'	. • • • • • &G	
+ MESOCYCLOPS EDAX + TROPOCYCLOPS PRASINUS +	ត • • • • •	or i	9 1	g '		<u> </u>	8	1 1	<u> </u>	
NAUPLII	ğ	64	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	0	1036	880	808	86	318	
CLADGCERA	• • • • • • • •	•								
+ BOSMINA LONGIROSTRIS + CERIODAPINIA SP + CHVDORUS SP	1368	901	1011	1159	1395	. 411 81	2804	22.	752	
DAPHNIA SP. DIAPHANDSUM BRACHVUN HOLDPEDIUM AMAZONICUM	<b>់</b> គំ'	811	111	111	<b>46</b> 1	יייי	8'8 	111	<b>1</b> ''	

TABLE I-7a (cont.)

TAMONDALC CLASSIFICATION	,	* .		<b>6384711</b>	OF OREMISMS	7	ST AT 10m3			. ·
			,						•	•
ROTIFERA										
ABCOUNTY BE ABLACHON'S ANOULARIS	¥Ē	<b>'</b> &'	I.D.I	161	' <b>.</b>	181	' <b>9</b> '	1991	' <u>8</u> '	, , , , , , , , , , , , , , , , , , ,
BRACHIONLE CALYCIFLORUS + BRACHIONUS HAVANNEKSIS + BRACHIONUS GUARRIDENTATA +			111.	111	111	111	111	16091	<b>*</b> !!	
CONCENTER OVALIB	. ' '8	118	118	133	111	116	8	146	1 1 1 1 1 1	8.8
FILINIA LUMSIBETA	12	8	, i i		g.	. 5	g. ' '		- 46	- 62°
MELLICOTIA LONGISPINA NEMATELLA COCALEARIS LECAME LIMA	~ <b>E</b> '	74.	1263	1001	200 m	140	00 I		1961	2063
+ LECANE SIN	111	111	111	111	111	111	118	111	***	118
+ PLATVIAS PATULUS + PLECEONA HUDSONI + POLVARTHEN VULGARIS	126	116	100	100	1 2 2	35	000	116	127	¹ ត់ទី
SYNCHAETA SP TRICHOCERCA LONGINETA TRICHOCERCA SIMILE	25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15 25.15	<u> </u>	211	8.1.1 2.1.1	\$00.0	40. 27.	9346	6257	6367 14	3667
TRICHOCENCA SP TRICHOTAIN TETRACTIS TROCHOSPHAERA SOLSTITIANS	111	112	.111	\$.8	118	116	111	g11	<u></u>	532
+ CAIDENTIFIED BOTIFERA		1	1	1	1	1				
# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									•	• ••

TABLE 1-7a (cont.)

TAIDMONIC CLASSIPICATION	•••		:	NUMBER	NUMBER OF ORGANISMS AT STATIONS	MS AT 874	14 1041	*		
	•		n						•	•
HINGELLANGA										
HEXIOENIA SP						ī				ı,
UNDECIFIED IN MASTER FILE										
CASPECIFIED TAXON	••••		<b>6</b> '	11	66 23	••••• ••	od'	11	11	11
TOTAL NUMBER OF ORGANISHS NUMBER OF TAXA	<b>6</b> 316	757	9 -	7	1992	9 11	1786	11323	<b>8</b> 7.01	

TABLE 1-7b

CORPS OF ENGINEERS (CONTRACT DACHOL-78-C-0101) PHASE II, CYCLE 7 (12/3-6.1979) *** PASS TWO - CODED DATA USED/STATIONS NOT COLLAPSED

TAXONOMIC CLABBIFICATION		•	7	MEN OF OR	A SHELLA	NUMBER OF CROANISHS AT STATION	•	•	•	
	=	ğ	5 5 5 5 5 5 5 7	•		4	7.1		•	para para
Adhero				-					<u>.</u>	****
CALANDIDA DIAPTOMUS HISSIESIPPIENSIS	8	38 88 88	•			•	1	3	ğ	
CYCLOPOID COPEPOITES CYCLOPOID COPEPOITES CYCLOPOID COPEPOITES	81 '	8,5	<u>.</u>	<b>9</b> →1	Force (	<b>⊳</b> ∞1	MI I	3,4	=8·	
TROPOCYCLEPS PRAGINAS			'		• {					
**************************************	g P	,			R					
CLADOCENA						••••				••••
BOSHINA LONGINGSTRIS CERTONSHINA SP DAPHAIN SP DIAPHAINSHINA SRACHYUNUH HOLGPEDIUH AHAZONICUH	ğ'' ' <b>-</b>	660 111		440	0-0 LII	&1 <b>%</b> , &11	-11 111	ga 1111	<b>3</b> 11 182	

TABLE 1-7b (cont.)

TANDUCMIC CLASSIFICATION	•••		:	WOMBER C	OF DREAMISMS	4	STAT10m:			
		3.5		•	18	•	41	•	21	
RITTFERA										• • • • •
ABCORDING PRODUCTS ABCACCIONE ANOLORIE	'8' *****	111	134	(6)	141	101	<b></b> 1	121	<b>≒8</b> ¹	
BRACHIONUS CALVCIFLORUS BRACHIONUS HAVANGESIS BRACHIONUS GUADRIDENTATA	8''	ຂາ	<b>6</b>	411	ដ្ឋា	<u>*</u> !!	•1= •	8'8	8''	
CEPHALADY-ILA SP CHONDOASTER OVALIS CONSCHILUS UNICORNIS		1505	119	W   P	1.1	114	119	9	''ā	
FILINIA LINISETA FILINIA 1P OASTROPU: SP	ető	111	5		141	<b>0.</b> 1	 	<b>'</b> g'	'%= :	
KELLICOFÍA LONDISPINA KERATELLA COCHLEARIS LECANE LINA	±20 20 20 20 20 20 20 20 20 20 20 20 20 2	101	151	. 1 1017	121	1=1	10-	121	128	
LECAME W. LEPADELLA SP HONGSTYLA SP	++++	188	114	1.1 1	_ I I	111	11	••••		
PLATVIAS PATULUS PLEDSGHA HUDSONI POLYARTHIN VALGARIS	, 3 <u>2</u>	<b>់ក្</b>	202	-12	<b>B</b> I I	11=	12	' & g	1 <b>20</b> 2 1	
SYNCHMETA SP TRICHOCENCA LONGISTA TRICHOCENCA SIMILIS	2) <u>)</u>	68°	8	811	<b>9</b> 11	<b>5</b> 11	****	1053	1824	
TRICHOCHICA SP TRICHOTRIA TETRACTIS TRCCHOSPINERA SOLSTITIAUS		111	111	110	Q1.1	111	<b>n</b> -1	111		
UNIDENTIFIED ROTIFERA	•	1	1	1	1	1	8	1	1	

TABLE I-7b (cont.)

TAKNYONIC CLASSIFICATION	• • •			NUMBER O	F ORGANIS	NUMBER OF ORGANISMS AT STATIONS	T ION!			,
		- 12	61	• • • • • • • • • • • • • • • • • • • •	51.	• • • • • • • • • • • • • • • • • • • •			10	
HIXELLANGA						•	•			
HEXICENIA GP	****	1		ı			1		<u>.</u>	
	• • • • •		• • • •	••••	****	****	*****	****		
MGPECIFIED TAXON	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>!</b> !	11	+++++ 	<b>a</b> .l	11	11	- 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100 + 100	3'	
TOTAL NUMBER OF CROANISMS 8983 2015 231 83 77 132 3266 4243 **********************************	+ + + + + + + + + + + + + + + + + + +	89983	2019	231	n a	4	132	3266	4243	

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TABLE J-1a

COMPS OF ENGINEER'S (CONTRACT DACUDI-78-C-0101) PHASE II. CYCLE I (2/10-22/1070)

TARBADAIC CLASSIFICATION		•	•	NUMBER OF	DF ORGANI	DRGANISHS AT STATIONS	A7 1001 TA	.·		
			7					•	•	•
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TURNALLANIA R	1 0	1 🛊		1 0	'g	12		11	1,1	. 11
ANN EL I DA-HIRUDINEA										
	••••	•			1	•	•	•	ı	•
ANNEL IDA-UL I GOCHAETA		*****				•				
MAIDIDAE +	•	,	•			,		,	(	ı
TUBIFICIONE ++	2	•	2		1	ħ	=	2	2	
# ENCHYTHACIDAR NEW GENUS	j		•	,	1		• • • • • • • • • • • • • • • • • • •	1		1
		•					•	•	••	

TABLE J-1a (cont.)

TAHOMONIC CLASSIFICATION	•••			RUBBER	DF ORGALI	NUMBER OF ORGANISMS AT STATIONS	AT 10Ms		٠	
						•		•		•1
		+ + + + + + + + + + + + + + + + + + +					• • • • • • • • • • • • • • • • • • •			
MULUSCA	••	•••	•••			••		•	•••	
GASTRUPODA	**	***	•••			•••	•••	•••	•••	
COMJICULA MANILETJIS Goniotasis aljanyensis Melisjua st	- 1 · · · ·		711	811	<b>*</b> 11	2365	<b>8</b> '1	<b>6</b> 11	811	2''
PAYSA SP		• • •	•••	1	•	,	•	•	· · ·	
A1VAV10	• •	•••							•••	
8187HCDU 4214009	•		1	•	•	,	•		2	<b>2</b>
######################################										
ASELLUS SJ Walella Azteca	11		41		11	11	1.1	11	11	11
A THE PROPODE IN SECTA		•								
CHIRCHDAR	• • •	• • •	***				•••		•••	
ADEA JESKY JA CINCTIPES ABLA JESKY JA PAGAJAYTA CHINGROALS SP	111	1 1.1		111	111	111	31	101	9 F	\$'2
CLADJELMA SP CLADJELMA SP CUELNIANYPUS SP	111	111	111	111	111,	111	112	111	118	''2
CLEVENINFURA SP NEAR CORVENINEURA SP MCAR CENTROLEURA SP D	111		110	1 1 2					111	

TABLE J-1a (cont.)

TANDMONIC CLASSIFICATION				,		NUMBER	5	ORG ANI SMS		AT ST	AT 10es						
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+ CRIC/TURICS SP + CREET KHIBONOMUS FILVUS	• •		* * <b>*</b>		•••	1 1	+++	1 4	* * *	1 0	• • •	+++ 1 m	37	• • •	121	• • •	11
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+ STICTOCHIADWONUS DEVINCTUS + TANYTANSUS SP + XENICALRONNUS SP	+ + ,+		111		111	111	••••	111	••••	111	***	••••	110	• • • •	111		111
ONDESCRIBED CHRONDAINE A	• •	• • • •	• • • •		• • • •	• •	•••	11	• • • •	11			• •		11		
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TRICUPTERA		***	* * *		* * 4				. + + 4			•••			• • •		
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+ POINTAIN FLAVA	11	• • • •	,,,	• •		• •	• • • •	• •	• • • •	11		•••	• •	•••			
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TABLE J-la (cont.)

•••				NUMBER 6	F ORGANI	NUMBER OF ORGANISMS AT STATIONS	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
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		*****	*****	******	*******	********	••••••	*******		
				*	•	*	*	•	***************************************	
CFRATIBOGONIOSE (NO LANVAL KEY) CHALILINGS SP EMPLOIDAE (NO LANVAL KEY)	111	••••	111	111	111	110	%# '	111	eg t	1 2 1
ENALLAGAA SP + COMMUNUS SP + NAMPUS SP + +	111	:11	111	111	111	' <u>n</u> '	111	. 1 2 1	111	
PADGOANIUS DASCURUS + + + CALCOATIFICO CULCUPTERA + + + + + + + + + + + + + + + + + + +	11		••••	11	11	11	11	11	11	•
MISCELLANEGUE INVERTEGRATES +	•	•	•							
		11	11	11	11	11	: 1 <b>6</b>	11	11	10
TOTAL NUASER OF URSANISMS 647 + 1140 + 622 + 360 + 555 + 2428 + 1541 + 1039 + 689	<b>,</b> n	-	6 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1140 + 622 + 2426 + 1636 + 1541 + 1646 + 1541 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 1646 + 164		2 9	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	55	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	

TABLE J-1b

CURPS OF ENGINEERS (CUNTRACT DACMOI-78-C-0101) PHASE II. CYCLE I (2/19-22/1979)

TAXUNDEIC CLASSEMICATION	•••			NUMBER	NUMBER OF ORGANISMS AT STATIONS	BHS AT ST	AT LON:			
		21	77	-	81	2		2		
DLATYMFLM INTMES-TURGELLARIA					•		•			
		ē,	*****		11	01	• • • • • •	B)	•	
ANNELIDA—HIRUDÍNAA. Hirudinea		•	1		,	•		1		
ANNELIDA-OLIGOCHAETA		•								
NAIDIDAE	ı	8		ñ •••••	1	134	1		<b>79</b>	
TUELFICIDAE MISCELLAMEDUS	•	<b>1</b>	3	1	•	•	á	1	2	
ENCHYTRALIDAE NEW GENUS	1				1	828	,	,		

TABLE J-1b (cont.)

TAKONDAIC CLASSIFICATION	•••	•		NUMBER	OF ORGANI	ORGANISHS AT STATIONS	AT LONS			
	=	÷		:		:		±	<b>:</b>	
				\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\						
MULLUSCA		•		• • •		• • •	• • •	• • •	•••	•••
GASTRUPIDA	• • •		• • •	•••		•••	•••	•••	•••	•••
CORULOCIA MANICENSIS GONIOLASIS ALBAVENSIS MELISCER OF	= 1	3 3	000	15 I	= 1	211	<b>h</b> 11	90 9	**************************************	
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8174714	•••			•••		•••	•••	•••	•	•••
FURRA CUIRISIS	•	,	•	1	1	•	•	,	,	
ARTHRUPODA-CRUSTACEA									***************************************	*******
ASELLUS SP Hyalfila azteca	11	1 5	+1	11	11	<b>0</b> 1	11	11	11	
**************************************			•							
CHIRONDAIDAE									• • •	• • •
AULALISMYTA CINCTIPUS AULA ESMYTA PARAJANTA CMINCUALUS SP	212	1 1 11 10 10 10 10 10 10 10 10 10 10 10	110	์ ก็	Z 1 2	115	31			
CLADITANYTARGUS SP. CLANDRELAA SP. CRELITANYPUS SP.	112	257	118	119	110	• • • • • • • • • • • • • • • • • • •				
CCRYNUNGURA SP NEAR CORYNORURA SP NEAR CCRYLUNGURA SP		111		••••			22	. 1 1		

TABLE J-1b (cont.)

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	=		81	•			•		•			•••••
- Calcurate se				•					<b>:.</b> .			
+ CRYPTUCHINDWOAUS FULWUS - CAYPTUCHADONELMA SB	3'	# 1 * + +	•	••	• •	٦,	••	**	•••	••	• •	
+ DICROTENDIPES LEUCOSCELIS	• • •	 2:	•••	•••	• • •	1	• 1	•••	•••	• • •	•	
+ ENDOCHIAGNOSIS SP		<u>.</u> .	• • •	• • •	• • •	, ,	2	• • •	•••	• • •	• •	
+ EPUICUC AJIUS SP + EUKIEFFERIELLA CASQUESCENS	<u>,</u> ,	•••	11	•••	• • •	11	1.	•••	• • •	•••	• •	
+ EUKIEFFERIELLA SP	•	••	•	• •	• •	•	2	••	• •	• •	•	
+ GLYPTOTENDINES 98 + MICHOLOMORUS SONDCHRUNUS + PALMACHIRRONORUS YONGCHRUNUS	•••			•••		111	• • •	••••	•••	••••	•••	
PAMALAUTEMBORNIELLA MIGHOMALTERALIS     POLYPEDILUM MALTERALE     POLYPEDILUM MEAR ILLIMMENSE	111	'\$' ••••	••••	• • • •	191	111	<b>;;</b> °	181	****			
+ P4UCLADIUS 5P + PSECTAULADIUS 3P + PSEUVUCH HONOGUS 5P	'n''	#''	****	••••	****	211	~ · .	••••	****	••••	• • •	
+ MPR.OTANYTAGOUS SP + MORACKIA "PF41JERA + STENDUNIK: 474US SP	••••	#''	••••	****		•••	••1	••••	****	••••	• • •	
+ STICT JCHINGYAUS DEVINCTUS + TANYTANSUS SP + REALCHINGAGAUS SP	111	••••	••••	••••	191	111	221	****	***	••••	•••	
- JAGE SCRIBED CHIRDADAINI A UNIDEATIFIED DRIMACLADIAN 3	••••	'2	••••	••••	****	11	11	••••	· ••••	••••	• •	
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PURACINA SEE SE	ñ'	••••	<u></u>	£'	* * * *	8	22	••••	•••	•••	11	
THICHTERA		•••	•••	•••	•••	•••		•••	•••	•••		•••
• HYDMOTILLA 30 • MLUMECLIPISIS 50 • OFCFIIS 50		121	111	••••	••••	110	• • •	••••	****	••••	• • •	
+ polatia flava + unideviified talcoptera		•••	•••	•••	•••	11	ä	•••	•••	•••	• (	

TABLE J-1b (cont.)

TAXTHOUSE CLASSIFICATION	•••			******	OF DRGANTSMS AT	SHS AT ST	STAT LOW!			
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#15CELLAMEGUS INVERTERATES										
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TABLE J-2a

LAKE SFULCRE WE MANAGEMENT STUDY - BENTALC MACROINVERTERNATES (ORGANISME/30 H)
CORES OF EMELYEERS (CONTRACT DATUDI-TE-C-BIGLI PHASE II. CYCLE & (4/2-4/1079)
010 PASS TWO - CODED DATA USED

TAX SHOWLE CLASS IFICATION				NUMBER O	NUMBER OF DREAMENS AT STATIONS	INS AT ST	111041			
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ANVEL134-11RUBINEA									••••	
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TUBIFICIDAE	1	•				•	80	<u>.</u>	<u></u>	<b>2</b>
OLIGOCHAETA PAULLY A FHCWYTRAFIDAF NEW GENUS	!			•		•	•	••••	••••	••••

TABLE J-2a (cont.)

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* MOLEUSCA			•••	• • •			• • •	•••		•••
GASTROPODA			••		••	••	. 4 4			•
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ARTHROPODA - CRUSTACEA					17	•				
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ART MOPODA - INSECTA		• • • • • • • •			•••					
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ABLABFSWTIA ANNULATA ABLABFSWTIA PAKAJANTA • MEAR CPERVOVSKTIA ORBICUS	111	••••	110	1 1 km	••••	••••	••••	••••	• • • •	
CRIPOWORLS SP CLADOTANTARBUS SP CLADOPELNA SP	••••				••••	••••		1 1/1	ñ .	
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TABLE J-2a (cont.)

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TABLE J-2a (cont.)

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481CDFFR4										
MEUMFCLIPISIS SP NECPTIS SP POTANYIA FLAVA	•••		11		11	11	01	1 (		
UNIDENTIFIED TRICOPIERA					1	1	1	1	•••	
MI SCELLANE DUS	•••									
CERATOPHICONIDAE (NO LARVAL KEY) CHACHORUS SP CHPIDIDAE (NO LARVAL KEY)		111	11		10		52		• • •	
COMPANYS SP NAMENYS SP PODURA ADVATICA	• • • • •		1 111	1 111		, ,,,	1 111	<b>G</b> 111	· 26	
	••••••	• • • • • • • • • • • • • • • • • • • •				-				
MISCELLANGOUS ILVEPTEBRATES	• • • • •									
Milatoda	1		•	1		- <b></b>	•	1	1	<b>;</b>
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NUMBER OF TERM	3	1787 M	96-	5	9 6		- 206	S .	1213	****

TABLE J-2b

LAKE SPHINGLE NG MANAGEMENT STUDY - BENT41C MACROINVERTEBRATES (ORGANISMS/SO M)
CORPS OF EVGINIERS (CONTRACT DAZUGI-78-C-0101) PHASE 11. CYCLE 2 (4/2-4/1979)
*** PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION			•	MUNDER	OF ORGANI	ORGANISHS AT STATION:	ATI ON:		
	=	81	•	9.7	9.	-	•		•
PLATVMENIMTMES-TURGFLLARIA									
TURRELLARIA TURRELLARIA		. 1	•1	••••		' 2	36,	ne ne	•
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ANNEL TOA-DLIGGENAETA									
MATOTOAE	• •	1	ñ			,	2		
TUBIFICIDAE	•	90	•			'n	•	<b>9</b>	
OLIGOCAMETA PANILY A PNCWYTRAFIDAE NEG GENJS	•	1	٠.		1	•	•		

TABLE J-2b (cont.)

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MOLLUSCA	• • •	•••	• • • •	• • •		• • •	•••	•••	•••	•••	••
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CORBICULA MANICENSIS	:	125		 2	6	110	•	1295	+ 2729		
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PHYSA SP	•••	•••	•••	٠٠.	,	•	•••		• • •		••••••
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UNIONIDAE	•••	•	•••	•••	•	1	•••		•		
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ARTHROPSDA-CRUSTACEA	****	.1	: *****		4			:			
ASELUS SP FFLA AZTECA		••••	****	••••	11				••••		
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ART MROPODA - INSECTA	•••		•••	• • •	•		• • •	***	***	•••	•••
CHIRONOMIDAE	•••	• • •		• • •		• • •	• • •	•••	• • •	••	••
ABLABESHTA ANNULATA Ablabeshta Parajanta Mear Chetalovskila Orbicus				**** <u>4</u> 11	101	***	••••	••••	••••		
CHIBONOMUS SP CLANDT ANY LANGUS SP CLANDPELMA SP	<b>4</b> 11	8 · ·			111		. • • •		. * * *		* * * *
CORLOTANYDUS SP CONCHAPPICIPIS SP CORVIGIRA SP	<b>5</b> ''	<b>3</b> ''	#- ••••	# <u>**</u>	•11	·***	111 	***	• • • •		
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TABLE J-2b (cont.)

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FNDDCH BRINGING SP	•	•	•	•	•	•	•	•	•	•	•	•	•	•••••		:
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HICOD SECTOR SP	•	••	• •	24	•	• •	2	• •	• •	• •	٠.	• •	::			:
PARACL ADOPELHA SP	•	•	•	•	•	•	•	•	•	•			:	*******	•	:
PARATEMOIDES "CORVECTERS" (A)	••	••	••	•	•	••		••	•	• •	•	••	•	***************************************	•	1
PARATENDIPES SP	•				•	•	•	•	•	•		•				
POL VPEDILUM MALTERALE	•	•	٠.	29	~	•	131	•	•	•	ž	-	:	******	•••••	:
POLYPEDILUM SPP	•	•	• •	,		• •	٠	٠.		٠.	K	٠.	:	******	•	:
PROCLANIUS .	**	+ 215	•	8	•	+	•	•	•	٠	•	•	٠	••••••	••••	:
PSPCTMOCLADIUS SP	•	•	• •		•	• •	•	٠.	•	••	~	•	:	•••••	••••••	:
S SUMMERIA CHIA SE	•	•	• •	,	•	•	•	•	•	• •	•	••	•	*****		
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STICTICHIROMPUS DEVINCTUS	•	•	•		•	•	•	•	•	•	•	• •	:	******	••••••	:
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TABLE J-2b (cont.)

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TABLE J-3a

LAKE BEMINCLE" WE MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (DROANISHE/SO M)

CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 3 (4/4-6.1979)

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TABLE J-3a (cont.)

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TABLE J-3a (cont.)

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POTANYIA FLAVA  MISCELLAMEDUB INSECTA  MISCELLAMEDUB INSECTA  CERATOPODONIDAE (NO LARVAL NEV)  COMPMUS SP  CHARPUS SP  NARPUS SP  NARPUS SP	+ + TRICOPTERA				***		•••	•••	• • •	• • •	• • •	
CERATOPOONIDAE (ND LARVAL KEY)  CERATOPOONIDAE (ND LARVAL KEY)  COMPHUS SP  NARPUS SP  NARPUS SP  NARPUS SP  NARPUS SP  NARPUS SP	4 A 12 12 12 12 12 12 12 12 12 12 12 12 12	1	1	1	1		+ (	+ 1	••	++	+ + i	
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TABLE J-3a (cont.)

• MOINTE CEASSIFICATION					NUMBER	Š	GAN I SI	NUMMER OF URGANISMS AT STATION:	14T 10M	••			
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			<b></b>			<b></b>							
MISCELLANEOUS INVERTEBRATES+			***							****			
NEMATODA ++	1		****	1		****	*****	ı	****	1	ğ		
TOTAL NUMBER OF DROANISMS	+ 441 + 934 + 1345 + 3973 + 1993 + 1263 + 952 + 883 + 10 + 10 + 10 + 10 + 10 + 10 + 10 + 1	466	÷ • • • • •	1345	3973	<u>.</u>	1993	1263	•		883	923	535 + 286

LAKE BEMINDLE WE MANAGEMENT STUDY - BENTHIC MACREINVERTEBRATES (CROANISHS/SO H) CORPS OF ENGINEERS (CROANISHS/SO H) +++ PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION +			3	NUMBER OF	DROANISMB	ORGANISMS AT STATION			•	
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PLATVMELMINTMES-TURBELLARIA		** ** ** ** **	*** ** **	** ** ** ** **	* * * * * * * * * * * * * * * * * * *	**************************************	* * * * * * * * * * * * * * * * * * *	** ** ** ** ** **	• • • • • • • • • • • • • • • • • • •	
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TUBIFICIDAE TUBIFICIDAE	1	r	187			<u>8</u>	<b>6</b>	8		
HISCELLANE OUS ENCHYTRALIDAE NEM GCNUS	•			••••	••••		8			

TABLE J-3b (cont.)

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+ 6A8TRG#CDA + + + + + + + + + + + + + + + + + + +		***		***	***	***	***	***		***
+ CORBICULA MANILENSIS + + GYRAULUS SP + LAEVIPLEX SP + + LAEVIPLEX SP + + + + + + + + + + + + + + + + + +	111	211	611	• • • • •	<b>2</b> 11	601 601	<u></u>		1738	
# BIVALUIA					***	***		• • • •		
+ EUPERA CUERSIS + GPHAERIUM SP + UNIONIDA:	161	110	<b>161</b>	111	••••	111	111	**** •!!	111	
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ARTHROPODA-INSECTA		***		•••		•••	***	***	•••	•••
CHIRONOMIDAE		-41		•••		++-	••	• •		•••
+ ABLABGBTVIA CINCTIPES + ABLABGBTVIA TARECONI + ABLABGBTVIA TARECLA		111	111	81 I	111		111		111	
+ NEAR CHERNOVSKIIA GRBICUS + CHIRONOMUS SP	11	11	1.0	11	1;	•••	<u>g</u> ı	11		
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+ DICHDIENDIPES NECHOS.STUS + OLYPTOTENDIPES SP +	· · ·	11	11	•••	11	•••	11	<b>44</b>	11	• • •

TABLE J-3b (cont.)

TAUCHCALL CLASSIFICATION					Ž	0 W 301	MUNITER DF DEGANISMS AT	, eg		***********				
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ARALAUTERBORNIELLA NIGRONALTERALIS	•		+	•	•	•	•	•	•	•	•		•	
PARATENDIFES SUBAGONALIS	• •	* *	• •		• •	• •		• •	·	R	• • •	'n	ñ	
		+ (	<b>+</b> (	.0	+ (	+ (		+ 1	* *	•	٠.	•	•	•
PROCIPOR	•	•	+ 6	ä	•	•	53	•	•	٠	•	1	•	
SECTROCI.ADIUS SP	1	+ 1	+ + 1	•	+ +	+ + 1	•	• •	• •	•	• •	•		
HEDTANYTARGUS SP	•	•		•	• •	1	•	• •	•	1	•	5	6,	•
ROBACKIA DEMIJERA STICTOCHIRONORUS DEVINCTUS		* *	• •	• •	• •	• •		• •	r.	7 1	• •	11	• •	
ANVTABLUS 00	•	++	++	•	++	++	١	++	••	•	++	,	•	******
XENOCHIRUNOHUS SP	•		+	•	•	•	•	• •	• •		+ (	1	•	
•		• •	• •		• •	• •		• •	• •		• •	•		• •
EPHENERGPTERA		• (	+ •		• •	+ 1		+ 4	+ 1		٠.	••		• •
EXAGENIA SP	*	• •	+	•	• •	t.	90	• •	4	1	•	1		* *
TRICORYTHODES ALBILINEATUS		• •	• • • •		• •	+ + 		• •	• • <u>•</u> •	8'	• •	, , , ,	8	
TO TO THE PARTY OF		•••	++4		++4	++•		++;	* * •		•••	***		•••
		• •	•		• •	•		• •	*		•	•		•
MEURECLIFISIS SP	• •	• •	# +	1 1	<b>.</b>	* * N:	• •	٠.	<b>* *</b> 1 1	1 1	٠.	10	330	
			**		**	++		**	**		••			++
TISCELLAMEDUS IMSECTA		• •	• •		+ (	+ +		+ 1	+ <		• •	• •		• •
ERATOPOGONIDAE (NO LARVAL KEY)	•	•	•	1	• •	• •	1	• •	•	19	•	1	•	•
	6 i	• •	* +	7	• •	••	<b>*</b> '	• •	• •	N 1	• •	11		
		+ •	• •	,	•	•		•	•	:	•	•		•
PODURA ARUATILA	1	• •	• •		• •	• •	• •	• •	•	ğı	• •			
		•	•		•			•	•		•	•		•

TABLE J-36 (cont.)

•					3	enter o		2 4 5	MUMBER OF DECAMISMS AT STATISMS	74 A A A	ï				
* *	•	=	•	2	•		=	٠	61 . 61 . 21 . 41 . 51 .	•		=	٠	•	•
			***												
HIBGELLANEOUS INVENTEBRATES+	+++4		****		••••	* * * *		****		•••	+ <b>+ + *</b>				
+ + + + + + + + + + + + + + + + + + +	1		• • • •	•		1		* * * * *	ť	••••	ត		• • • • •	•	
**************************************	***	•	**	****	• ‡ •	• • • • • • • • • • • • • • • • • • • •		***	***************************************	: :	***	•	•		•
TOTAL NUMBER OF ORGANISMS	£ 4	<b>17</b>	4 r	600		216		******* ********	1472	****	65 5	522		<b>E</b> 53	

TABLE J-4a

LAKE SEMBNOLE NO MANAGEMENT STUDY - BENTHIC MACHDINVENTEBRATES (ORGANISME/SEM) CORPS OF ENGINEERS (CONTRACT DACUDI-78-C-0101) PHASE II, CYCLE S (8/13-16-1979) +++ PASS TWO - CODED DATA VIED

******************************	•••••••••••••••••••••••••••••••••••••	* * * * * * * * * * * * * * * * * * *								
TANGMIC CLASSIFICATION	•••			NUMBER (	NUMBER OF ORGANISMS AT STATIONS	MS AT 8T/	14 DH1			
	-						_	•	•	=
TURBELLARIA TURBELLARIA TURBELLARIA B	1 N	16	<b>'</b> \$	<b>'</b> 2	10	12		11		11
AWELIDA—HIRUDINGA						4				
	,			1		ı	1	ı	,,,,,,,	i
ANNEL IDA-OL 100 CHAETA								·		
MAIDIDAE	2	<b>.</b>	*	l	•	:	2	1	1	•
TUBIFICIONE	1			ı	1	2	1.50		3	2
	,	•		ı		ı		•		•
WOLLISCA										
GASTROPODA COMBICULA MANILEMBIS CONTORASIS SP VIVEARLS SF	, i	811	•11	<b>5</b> 11	211	***	511	2''		<b>211</b>

TABLE J-4a (cont.)

TAMONOMIC CLASSIFICATION	• • •			MUMBER	DF OPEANTS	NUMBER OF ORGANISMS AT STATIONS	AT BOW!			
	-		7			•		•	•	•
• •										
METAGONIA SP TRICCATIFICES ALBILIMEATUS	11	, , , , , , , , , , , , , , , , , , ,	11	11	,,		5	•	Ē'	ħ'
TRICOPTERA	•••		•••	,	* <b>* *</b> *	•		•••	•••	
NEUMECL (PISTS SP OFCE 115 SP POTANY IA PLANA	111	111	111	111	111		<b>4</b> 11	111	111	110
MISCELLANEOUS	•	•••			**			***	•••	
CERATOPOGONIDAE (NO LARVAL KEY) CHADEORIS SP EMPIDIDAE (NO LARVAL KEY)	J <b>O</b> 1	101	111	111	1•1	111	111	111	111	121
STENSIALS SP STENSIALS SP	11	11		11	11	11	11	<b>2</b> 1	11	••••
PISCELLANEOUS INVERTERATES					•		••••			• • • • • • • • • • • • • • • • • • •
M <b>S</b> * 270 C.A	1	• • • • • •	1	1		,	· · · · ·	, 1	1	
TOTAL MUNETA OF DEGANSES	928	268 - 208			. 382	ŗ	202 + 202 + 202 + 202 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 + 203 +	•		į
NUMBER OF TAKA	•	••••	•		•	•	2	2	•	•

TABLE J-4a (cont.)

TARCHOMIC CLASSIFICATION				MUMBER	OF CALANTSAS	¥	ST AT 1046			
	•	<b>N</b>	7	•	•	•	•	•	•	•
			***							
BIVALVIA		•••		•••	•••	•••	•••	•••	•	
EUSEGA CUOFISIS	, ,	<b>0</b> 1	11	11	11	11	11	<b>Ø</b> 1	11	' X
***************************************			•							•
ARTHOPODA-CRUSTACEA	• • • •			• • • •						
HVALBLA AZTECA	,	1	1	••••	1	1	1		1	
								***************************************		•
ART MID PO CA- INSECTA				• • • •						•••
CHINCHONIDAE				•••	•••	•••	•••	•••	•••	•••
ADLABESAVIA CIMCTIPES MARA CHFRADVATIA ORBICUS CHIPONOMUS SP	1201	131	121	121	181	111	<b>2</b> ''	ħ''	<b>3</b> ''	£''
CLADCTANYTARSUS SP CORLOTANYDUS SP CCRYACMEURA SP	111	111	111		111	101	101	111	131	'h'
+ "CPVPTOCH BONDHUS" CF ROLL 1 • CRYSTCOLIFONDHUS FULVUS • DICHOTENDIPE'S LORUS	111	111	111		<b>0</b> 11	<u>~</u> ' '	191	121	111	
+ EINCELDIA NATCHITOCHEA + EPSICOCLABIUS \$P + PARACHIRCNC MUS MCNOCHRO NUS	111	111	111			111	111	111	111	
+ FOLY PEDILUM MALTERALE + POLYPEDILUM SPP + PROCLACIUS SP	<b>0</b> 11		211	• • • •	<b>8</b> 11	<b>S</b> 1 1	•12	<u></u>		
+ BNE DYANYTARSUS SP + ROEACKIA CENIJERA + TIC TOCHI FUNDAUS DEV INC TUS	'g'	101	181	'#'	'='	161	112			
	111			111			113	113		
		•	1			i .				

TABLE J-46

CAMPS OF FINSINGERS (CONTINCT DACIDITY— BENTHIC MACROIMVERTOBRATES (ORGANISME/SQ N)
CAMPS OF FINSINGERS (CONTINCT DACIDI-78-C-0101) FINASE II. CYCLE S (0/13-14-1079)
the PASS TWO - CODED DATA USED

TAKONDAIC CLASSIFICATION				<b>13001</b>	8	CREANISMS AT STATIONS	AT 10043			
	=		2	:	•	:		:	:	
***************************************					**************************************					
A a type, minthes—Tumbellabla		••••	••••	••••	••••	••••	••••	••••	••••	• • • • •
TUMBELLARIA B TUMBELLARIA B	, ,	11	•••••	•••••	•••••	<u>:</u> :	••••	<b>3</b> '	3'	
44444444444444444444444444444444444444										
	1	1	1	1		1			=	
ANNEL I DA-OL 100 CHAETA						•				
NAIDICAE Naidicae	1	1	•					2	ì	
TUBIFICIOAE Tubificieae	1	<b>ē</b>	2		•	ā	•	•	•	
	1	1	1		. • • • • •	=	1	1		
POFF RECO	• • • • • • • • • • • • • • • • • • •			•						
	<b>Ø</b> 11	5''	<b>3</b> 11	25°	<u>:</u> ''	<b>3</b> 11	<b>#</b> ''	<b>5</b> °'	£''	
				-						

TABLE J-4b (cont.)

RUDERA CURENSIS SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVALVIA SEVAL			:						
	11			. 15	•-	4.7	•	•	
SPIARRA CURRISS SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SPIARRATUR SP SP SPIARRATUR SP SP SP SP SP SP SP SP SP SP SP SP SP S	•••••	•							60000000000000000000000000000000000000
**************************************	· · · · · · · ·	••••	11	11		11			
•									• • • •
MVALELLA A27ECA	<u>.</u>	1	1	,	1	1	•		
CHIRDWINIDAE +	<b>* •</b> •	++.	•••	•••	•••	•••		••	•••
A ABLABESMAIA CINCTIPES + NEAR CHERNOVSK IS DROICUS + CHIRCNCHIS SP	• • • • •	111	ñ	\$1 h	•11	111	111	111	
CLADCTANVTARSUS SP + + 106	101		191	181	' <del>'</del> ' '	211	111	110	
CRYPICCHIRDNONUS CT ROLL!  CRYPICHIRDNONUS PLLVS  DICRETWOTPES LOBUS	••••		111	1991	121	101	111	111	
TENTECOLA MATCHED + + + + PROTICOL ADLUS SP + + + + + + + + + + + + + + + + + +	, 1 1 • • • • •	111	n e	1 • 1		111	111	111	
PULYPENILUM SP P	••••	•12	110	118	110	111	' <u>\$</u> '	'គ'	
+ FMEDTANYTABBUS SP + FOUR CETTA CFFTUFFA + STICTUCMIRENOMUS DEVINCTUS	••••	111	111	111	111	111	211	<u>.</u>	
TANVELE STELLATUS  TANVARGUS SP  TENDCHERCACEUS SP	· · · · · · · · · · · · · · · · · · ·		101	111	111	111	111	111	

TABLE J-4b (cont.)

TAKONOMIC CLASSIFICATION	•••			******	OF OREAN	MUMBER OF CREANISHS AT STATIONS	AT LONS			
	=	21	2 .	:	•	:	:	:	:	•
MEXAGENIA SP TRICONVINCOES ALBILIMEATUS	•,	••	;·	ž'	<u>.</u>	<u></u>	•••	'2	12	
TRICEPTERA	•••		•••	**						•••
MEUR.: LIPISIS SP OFCRTIS SP POTAKIR PLAVA	119	111	••••	••••	111	110	111	225	•·¢	
MI SCELL ANGOUS	•		•••			•••	•••			•••
CERATOPOGONIDAE (NO LARVAL KEY) CHADECRUS SP EMPIDIUME (NO LARVAL KEY)	121		'3' ••••	121	<b>'</b> \$'	•;	111	1 4 9	101	
STENDING SP	11	11		••••	11	11	10	• •	11	
		•								
FISCELLANEGUS INVERTUENATES	• • • •		•••	•••	• • • •	••••	••••			• • • •
MEMATOCA	•	1		1	•		1	1		
		•								
TGTAL NUMBER OF DRGANESHS NUMBER OF TAKA	13	*	2	<u> </u>	56.	1370		2.2	<b>5</b> 2	
			••	••	••	••	••		}	•

TABLE 3-5a

LAKE SEMINDLE WG MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISMS/SG N)

CORPS OF ENGINEERS (CONTRICT DACWOI 78-C-0101) PHASE II, CYCLE 7 (10/3-7/1974)

*** PASS TWO - CODED DATA USED

The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th

TAXONOMIC CLASSIFICATION	•••		¥	NUMBER OF DI	ORGANISMS AT STATION	T STATION	_			
	: <b>**</b>	į n	W.	<b>4</b>	in +++	• +++	<b>^</b>	œ +++	o- +++	<u>°</u>
PLATVHELMINTHES-TURBELLARIA		******			**************************************	*** *** *** ***	*** ** ** ** ** **	* * * * * * * * * * * * * * * * * * *	***	
TURBELLAKIA TURBELLAKIA B	90g	11	1 gg			1 74	11	11	+++++	
ANNEL IDA-HIRUDINEA									•	
HIRUDINEA		1							+++++	
ANNEL I DA-DL I GOCHAETA						*	*			• • • • • •
NAIDIDAE MAIDIDAE		1	1	• • • • •		•••••	3			
TUBIFICIONE TUBIFICIONE	ı	6				*	***** *****	131	568 ****	* * * * *
HISCELLANEOUS ENCHYTRAFIDAE NEW CINUS LUMBRICU.IDAE	i i	11	11	<b>6</b> -1		<u>.</u> .			• • • • •	

TABLE J-5a (cont.)

TABONOMIC CLASSIFICATION	•••			ROBBION	OF ORGAN	NUMBER OF ORGANISMS AT STATION:	A7 10N:			
		~	77	•	an	•	•	•	•	07
**************************************			• • • • • • • • • • • • • • • • • • •	**************************************		**************************************				
CARTICULA MANILENSIS	785	187	193	506	333	*****	ñ	5	91	8
BIVALVIA EUPERA CUBENSIS	i	1				1	1	1		•
ARTHROPODA-CRUSTAGEA	•	•	• • • •		• • • • • • • •	• • • • • •	<u>.</u>	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · ·	• • • • • •
ASELLUS SP HVALELLA AZTECA	11	t j		11	11	11	11	11	11	+++++
ARTHROPODA-INSECTA	• • • • • •		* * * * *	÷ · · · · · · · · · · · · · · · · · · ·	* * * * * * *	* * * * * * * * * * * * * * * * * * *	•	• • • • • • • • • • • • • • • • • • •	* ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	• • • • • • • • • • • • • • • • • • •
CHIRCHCHIPAE	. 4 4			. + + -						
ABLABESTYIA ANNULATA NEAR CHENDVSKIIA GRBICUS CHIRONOMUS SP	111	11,	121	10-1		1100 E	31.5	910	ធ្នា ក្ល	' ' <del>6</del>
COELDIANYPUS SP CRICOIONUS SP CRYPTOCHIRONOMUS FULVUS	111	111	111		• • • • •	1 1 100	31.5	1 (18)	916	
CRYPTOCLADOPELMA SP EINFELDIA NATCHITOCHEA GLYPTOTCNDIPES SP	110-	111	111			111	111	1140	111	
POLYPEDILUM MALTGRALF PROCLADIUS SP PSEUDOCHIRONGMUS SP	111	111	111	111	111	1-0:	181	151	141	'ਜ਼' ••••

TABLE J-5a (cont.)

	***							• • • • • • • • • • • • • • • • • • •		
TAKONOMIC CLASSIFICATIOM	•			NUMBER O	OF ORGANIS	ORGANISHS AT STATIONS	1001			•••
•••	•	~	n	•	•	•	•			•
+ ADBACKIA DEMILERA	• •		, ,	32	•	 	* <b>*</b>	11		
	)		,	1	1	+ 1	+ +	++	• • !	• <b>•</b>
	1	,	ı	1	,	1	• • •	1 #	11	
+ TAINERICO	11		,,	11		• • •	11	21	•	1
+ + + + + + + + + + + + + + + + + + + +				• •		• •	• • •	. + 1		••
EPHENEROPIERA ++				**	•	• • •		1	1	1
+ + + ACC SICILOT + + ACC SICILOT + +	11		11	111		1 1 6	1 10	1 2	249	168
+ HEXACENIA SP	'	,	,	• •		· • ·	}	•	•	• •
+ STENONGIA SP	T T		,	++-		• • •	• <b>• •</b>	• • •		**
+ TRICOPTERA	* * * :			++1		• + +		• ••	•	**
	1	,	,	1	11	11	• • • •	11	11	• •
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TABLE J-5a (cont.)

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+ NUMBER OF TAXA	++-		* <b>*</b> *	n	* * *	•		(4		4. * * *	2	• • •	2	_	• • • •	4
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TABLE J-5b

LAKE SEMINGLE WG MANAGEMENT STUDY - DENTHIC MACROINVERTEBRATES (ORGANISHS/SQ :4)
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 7 (10/3-7/1979)
*** PASS TWD - CODED DATA USED

TAXONOMIC CLASSIFICATION + NUMBER OF ORGANISMS AT STATION			ž	NUMBER OF OR	ORGANISMS AT STATION	STATION	•			
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+ HIRUDINGA		•			1	ŭ	ı	ž,	<b>3</b>	
ANNELIDA-OLIGOCHAETA	• • • • • •	• • • • • •			• • • • • • • • • • • • • • • • • • •	•				
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TABLE J-5b (cont.)

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BIOALUIA	• • •			• • •	• • • •				• • •	• • • •
EUPERA CURENSIS				• • • •	• • • •	1	1	1		
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CHIRONOMIDAE	++-			• • •	•••	• • •		44.	++-	• • •
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TABLE J-5b (cont.)

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TABLE J-5b (cont.)

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TABLE J-6a

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LAKE SE: INGLE NO MANACEMENT STUDY - BENTHIC MACHOINVERTERNATES (ORGANISHS/50 H)
COMPS OF ENGINEEPS (CONTRACT DACHOI-78-C-0101) FMASE II. CYCLE I (2/19-22/1979):
*** PASS TWO - COPED DATA USED

TANONDRIC CLASSIFICATION				HUMBER	8	DREANISMS AT STATIONS	AT 1041			
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TURBELLARIA B	19	' <u>'</u>	12	••••	'Ē	• • • • •	16	2	11	••••
AMELIDA-HIMUDINEA	•									
MINUEINEA	1	1			1		1	1 .	••••	
MME 10A-0. 1 GOCHAETA									•	•
MAÍ DÍ DAE MAÍ DÍ DAE	1	1	•	••••			2	••••		•••
TUBIFICIDAE	ħ			•••••		2	ħ			,
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TABLE J-6a (cont.)

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MOLLUSCA	•	•••	•••	•••	***		•••	•••	•••	•••	•••
GASTROPODA			• • •	•••	***		•••	•••	•••	•••	•••
CORBICULA MANILENSIS FONDIORSIS ALBANYENSIS MELISOMA 59	m	365	138	••••	97	27.0	<b>2</b> ''	211	<b>=</b> ''		Ē''
PHYSA 90		•	•••	•••	•••	•	•••	•••	•••	•••	'
- BIVALVIA				***	• • •		• • • •	• • • •	• • •	•••	•••
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ART/ROPODA-CRUSTACEA				••••							
ASELLUS SP HVALELLA AZTECA	11	11	••••	****	11	11	•••••	••••	•••••	11	11
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ANT-MODODA-INSECTA			•••	•••	•••		•••	• • •	•••	• • •	
CATREMENTO AE			•••	• • •	• • •	-	• • •	•••	• • •	•••	
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TABLE J-6a (cont.)

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TABLE J-6a (cont.)

TANDMONIC CLASSIFICATION	•••				MUMBER.	OF ORGAN	OF ORGANISMS AT STATIONS	TATIONE			
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ENALLAGNA SP GCMPHUS SP NARPUS SP	111	111	• • • •	••••	***		••••		••••	••••	••••
PROGENEUS DOSCURUS	11		****	11	• •	11	••••	11	!!	••••	••••
MISCELLANEGUS INVERTEGRATES			•••••		•						••••
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TABLE J-6b

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TABLE J-6b (cont.)

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CURERA CURTISE.	1	,	,	'	1	•	'		:	1
ARTHODODA-CRUSTACEA										
ASELLUS SP WAALELA AZTECA	11	11	11	11	11	11	,,	11	11	
ARTHODODA-INSECTA									• • • •	
CHINDNOMIDAE		•••	•••				•••		•••	•••
• ABLABESAVIA CINCTIPES • ABLABESAVIA PARAJANTA • CHINCHOMUS SP	111	111	111	111	111	11;	111	+++	118	110
CLADCTANYTARGUS SP CLADCPELVA SP COELCTANYPUS SP	111	111	111	111	111	111	111	111	111	111
+ CCRYNOMEURA SP + MEAR CORYNOMEURA SP + MEAR CCRYNOMEURA SP B	112	111	111	111	<b>f</b> 1 1	111	111	111	111	111
+ CATCOTOPUS SP + CATFICCHIRCHONUS FULTUS + CRYPTOCLACOPILMA SP	111	111	111	111	121	111	111	121	121	121

TABLE J-6b (cont.)

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+ MINNELDIA NATCHITOCHRA	•	•	•	•	٠	•	• •	• •	•	٠.	• • •	•	٠.	٠
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+ RPGICOCLADIUS SP	• •	•	•	•	•	•	•	•	•	•	•	• •	•	• 1
+ FUXIEFFFREELIA SP	•	•	••	••	•	•	••	• • •	•	• •	•		•	)
STORESTONE STORES	•	•	• •	•	•	•	•	• •	• •	+ 4	• •		••	
+ ECROSSICIAN SP	• •	••	••	••	• •	••	• •	• •	•	• •		•	•	
+ PARACHIRCNOMUS MUNCCIPICIPIUS	•	• •	•	•		•	•	•		• •	• •		• •	•
PARALAUTERBORNIELLA NIGROHALTERALIS	• •	• •	• •	• •		••	• •	• • • •	• •	• •		2	*	•
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+ PROCLADIUS SP	• •	•	•	•	•	•	•	•	• •	• •	• •	• •	••	• •
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+ MENDCHINCHON SP	•	• •	• •	<b>+ •</b>	1	• •	• •	• •	•	• •	•		•	
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TABLE J-6b (cont.)

TAXONOMIC CLASSIFICATION	•••			MUNBER OF	OF DREANS	ORGANISMS AT STATIONS	ATIONS			
		:	*		:	*	\$ •	:		
			***	*****	•••••	••••••	••••••	•••••		
MI SCELLANEOUS								*****	******	
CERATOPOSONIDAE (NO LARVAL KEY) CYACHORGIS SP A ABVAL KEY)	••••	11	11		• • • •			11	2	11
MENALCHAGEN UP GCESTUS NP NARDUS NP			1 11	. 111		1 11	1 11	2 1h	1 11	
PROGOMPHUS DOSCURUS Unidentifico coledptera		11			1 11	1 11	1 11			
MISCELLANEDUS INVERTEBRATES										
	11	11	11	11	11	11	11	11	11	
TOTAL NUMBER OF DEGANISMS NUMBER OF TAXA	0 0	SPOI LANG THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE AND THE TRIPLE	194	131	•	4 B B B B B B B B B B B B B B B B B B B	# 15P		1387	

TABLE J-6c

LAKE BEMINGLE NO NAMAGEMENT STUCY - BENTHIC MACROINVERTEGRATES (ORGANISME/SO M)
CORPS OF ENGINFERS (CONTRACT DACVOI-78-C-0101) PHASE 11: CYCLE 1 (2/19-22/1970)
JOH PASS THO - CODEO DATA USED

TAKMONIC CLASSIFICATION	***			NUMBER	DF ORGANS	NUMBER OF ORGANISMS AT STATION:	ATIONS			
	· }	30	•	***************************************	*	8	*	• Y01 •		201
									ideadddadaddadadadadadadadadadadadadadad	
PLATYHELMINTHES-TURBELLARIA			••••	****	•••	••••	****	****	****	÷
TURBELLARIA Turbellaria r	11	1,			11	11	11	11	11,	••
		•								•
MI RUDINE A	1	1		• • • • •	,	1		•	••••• 1	•
AMMELIDA-OLIGOCHAETA										
MATOTORE MATOTORE		1		2	1	•		1	1	•
TUELFICIDAE	•	7	ĥ	2	,	2	2	1	•••••	•
MISCTLLANEDUS ENCHYTRAEIGAE NEW GEMUS	ı	•			ı	1	1	,	•	ı

IABLE J-6c (cont.)

						OF DEGANISES AT STATION:	TATION:			
TACHORIC CLASSIVICATION	• • •									
	2	• OF	£	20	<b>*</b>	<b>8</b>	*	101		100
				******						
	• •	•	••	••	• •	• •	• • •	• • •	• • •	•
MOLLUSCA			**	•••	•••	•••	•••	•••	•••	•••
GASTROPODA	•••	• • •	• • •	• • •	• • •	• • •	•••	••	••	
COPO ICULA HANTLENSIS	Σ.	1041	305 +	868	<b>%</b> ·	* + + ·	\$ 1 1 \$ • • •	P++	* '	<u>,                                    </u>
WELL SOMA SP	••	•	••	• •	•	• • •	• • •		l • • •	•
PHYSA SP		•	• • •	• • •	• • •	• • •	• • •	• • •	• • •	• • •
BIVALVIA	• • •		•••	• • •	• • •	••	••	••	••	• • •
EUPERA CUBENSIS				•••	• • •	: • • •	<u> </u>	: •••	<u></u>	• • •
***************************************	*******			******	•	*******	•	• • •		
ARTHROPODA-CRUSTACEA	•••		• • • •	• • • •			•••	• • • •	***	• • • •
ASELLUS SP Wyalella azteca	       	, ,		• • • • •		•••••	•••••		•••••	11
***************************************		•								
ARTHROPODA-INSECTA						•••	•••	•••	••••	•••
CHIRCHOMIDAE	•••	•••	•••	•••	•••	•••	•••	• • •		
ABL ABESMY IA CINCTIPES ABLABESMY IA PARAJANTA CMIRCNOMUS SP	# ' \$			151	•••• •••		e : e		2'ñ	
CLADOTANYTARSUS SP Cladopelwa Sp Coelgtanypus Sp	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		••••	••••	' ' <b>‡</b>	1 1 8 F	' ' <b>%</b>	1 1 SS	72	8
CORYNCHEURA SP MEAR CORYNONEURA SP MEAR CCAYNONEURA SP 8	111	111	••••	••••	••••	••••	••••	• • • •	• • • • •	• • • • •
CRICOTOPUS SP CRYPTOCHIRONOMUS FULWIS CRYPTOCL ADOPELMA SP	121	111	· • • •	++++	1 10 1	' <u>2</u> '	•	••••	••••	••••

TABLE J-6c (cont.)

	•••			raent.	MO 50	NUMBER OF ORGANISMS AT	AT STA'	STATIONS				
	2	10		:	•	•	•	*	¥ 0.1	•		ž
										***		
DICECTENDIFIC LEUCOSCELIS	•		•	•	•		•	,	'		*	
NOOCH INGROSCOS ST	••	•		• •	• •	• •	• •	4 (	• •	•	•	•
	•	•	•	•	• •	•	•	•	•	••	• •	•
UNIEFFE FILLA CAPPULESCENS	<b>2</b> (	• 4	•	•	•	+·	•	•	•	•	•	•
EURI EFFERICLIA SP	••	• •		••	• •	••	••		••	• •	• •	• •
LYPTOTENDIPES SO	••	•	•	•	•	•	•	,	•	•	•	,
BICACO SECTOR SP	•	•		<u>.</u>	• •	• •		a i	• •	<b>•</b> •	• •	• 1
ANACATHONOMUS NONDCHRONDS	•			•	•	•	*	•	•	•	•	' '
ARALAUTERBORNIELLA NIGRONALTERALIS	•	•	•	••	••	••	••	•	••	••	**	•
POLYPEDILUM MELTERALE POLYPEDILUM MEAR ILLIMOENSE	••	•		•	•	•	•	•	•	•	•	•
		1	1	•	• •	• • •	• •		•	••	••	•
PACCIANTUS SP	1287	• •	•	+	*		**	=	2	•	2	131
SEUCOCH I POHONUS SP	•			; ·	•	• •	• •	• •	••	• •	••	• •
HEDTANYTARSUS SP	••	••	•	••	••	**	••	- 1	•	• •	•	1
	• •		•	•	•	•	•	•	•	•	•	• •
	•	•		; ••	• •	• • •	• •	•	•	• •	• •	•
STICTOCHERONOMUS DEVINCTUS	•	•	1	•	•	•	•	•	•	• •	•	•
ENDCHIBONORUS SP	••	16		••	••	<b>* *</b>	••	1 1	••	••	• •	• (
UNDESCRIBED CHIRCHDRINI A	••	••		••	••	••	••	•		••	•	•
MIDENTIFIED DETHACLADIAN M	••	•	•	•	•	•	•	•		•	• • •	•
EPHENEROPTE BA	• • •	•••		•••	•••	•••	•••	~ <b>~ •</b>	• • •	• • •	• • •	
3	•	•		•	•	•	•			•	•	
STREET ST	;		21	2 '	<u>.</u>	•••	* * ·	<b>?</b> '	11	••	** <u>*</u> 1	'n
TRICOPTERA	•••		- م		•••	•••	•••	~ • •	• • •	•••	••	
	•	•		•	••	•	•	- •		• •	• •	
MANUACATION AS	•	•	•	2	•		•	•	•	•	•	•
ECETIS SP	) ·	<u>.</u>	• •	; ••	••	••	••		• •	••	••	• •
ROTABVIA PLAVA	••	••		••	••	••	••	(		•	•	•
MIDENTIFIED TRICOPTERA	•	1	•		•	•	•			••	•	•
	•	•		•						•		

TABLE J-6c (cont.)

•	•••				PRIMADER	OF ORGANI	NUMBER OF ORGANISMS AT STATIONS	ATION:			
	2	=	•	ī	2	٧.	2		104	108	701
CERATOROGONIDAE (NO LARVAL KEY) CHADOGONS SP EMPICIDAE (NO LARVAL KEY)	K.	111	••••	111	•••	181	DN 1	181	191	121	2
ENALLACHA SP COMPAUS SP NARPUS SP	111	IN I	••••	111	1.1.1	111	111	111	111	111	
PROCESSION COLECTION	11		••••	11 .	• •		••••	11	11	11	11
BISCELLANGOUS INVERTEBRATES		•	••••••••••••••••••••••••••••••••••••••	: · · · · · · · · · · · · · · · · · · ·	• •	• • • • •					••••
ACAR! MENATODA	18		• • • • •	11	11	• • • • • •	11	11	10	1 1	
TOTAL MUMBER OF TAKE 13420 1177 765 2673 1103 679 1141 674 747 660	0 M	•	•••••	, n	264 144	, no		= = = = = = = = = = = = = = = = = = = =			0 <b>0</b>

TABLE J-6d

LAKE SEMINOLE NO MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISME/59 M)
COMPS OF ENGINEERS (CONTRACT DACVOI-70-C-0101) PHASE II. CYCLE I (2/10-22/1970)
000 PASS TWO - CODGO DATA USED

TANDMOMIC CLASSIFICATION				MUMBER 1	Y DRGANE	NUMBER OF DRGANISHS AT STATIONS	17 TOM 8			
	***	•	110	126	124	120	134	98.	130	300
OLATTÆLBINTÆS-TURBELLARIA										
TURBELLARIA TURBELLARIA B	. 1 1	11	11		<u>8</u> 1	<u>.</u>	11		, ,	
**************************************										
	ı	1	•		2					
ANNEL ICA-OL IGNICHAETA										
MATDIDAE NAIDIDAE	1	•••••	ı	į	?	:	,	,		2
TUBIFICIDAE TUBIFICIDAE	1	1	2	ë.	2	2	2	2	3	•
HISCELLANGOUS ENCHUTHAEIDAE NEW GENUS	1	1	, 1	•	1	,		,	<u>.</u>	
				*******	******	••••••				••••••

TABLE J-6d (cont.)

TANDMONIC CLASSIFICATION	•••			MUNDER OF	P ORCANISMS	IS AT STATIONS	7 IDH:			
	• • • • • • • • • • • • • • • • • • • •	•	116	126	• #21			2	136	
MOLLUSCA	• • • •	••••		••••		••••	••••		•••	
CASTEOPODA										
CORBICUL A MANILENSIS CONTIDUASES ALBANYENSIS MELISOMA SP	2''		m i i	52.5	<u>:</u> '2	<u>.</u>	Ē''	<b>;</b> ''	<u>.</u> ''	'n''
PATOR SP	•••	•••	1	• • • • •	•••	,	1	•	1	1
DIVAVIA							•			•
EUPERA CURENSIS		1	2	ı	1	1	,	1	1	•
••••••••••••			******							
ARTH-OPODA-CRUSTACEA									• • • •	***
ASELLUS SP HYALELLA AZTECA	11	11	,,	ı	1 %	12	11	11	11	11
**************************************	•	•								
CH ! RE NOW TO A E	• • •									
ABLABESMYLA CINCTIPES ABLABESMYLA PARAJANTA CELETNOMUS SP	h''	218	115	1'5	''-	110	''ñ	118	119	212
CLADOTANYTAPSUS SP CLADOPELMA SP COFLCTANYPUS SP	119	110	, , N 90 80	I A ST	125	800	' ' 🏲	''=	119	''È
CCRYMONEURA SP • MEAR CORYMONEURA SP • MEAR CORYMONEURA SP 88	111		,,,	111	111	111	111	111	111	111
CRICOTOPUS SP CRYPTOCHIBONOMUS FUL VUS	101	<u>'E</u> '	101	' <b>2</b> '	191	121	121	191	121	'\$'

TABLE J-6d (cont.)

TAXONONIC CLASSIFICATION				HELMBER	8	ORGANI SMS	ŧ	STATIONS			
	114	=	+ 110	126	•		301	AE1 .		×	
				an N		Ę.					<u></u>
ENDOCHTRONOMUS SP	•	•	•	••	••	• • • •	•	1 (	•	•	•••
EPOTCOCIADIUS SP EUNITEPERATURA CARAUTESCENS TUNITEPERATURA SP	•		•••	••••	•••	••••	• • •	• • •	••••	••••	••••
MICROPECTRA SP MICROPECTRA SP MICROPECTRA SP MICROPECTRA SP MICROPECTRA SP MICROPECTRA SP	111	111	111	' <u>2</u> '	••••	••••	112	111	••••	••••	••••
PARALAUTERBORNIELLA NIGROMALTERALIS POLYPEDILUM MALTERALE POLYPEDILUM NEAR ILL INDENSE	• • •			· · · · ·	••••	' <u>\$</u> '	<b>'</b> 5'	•••	••••	••••	· <u>·</u> ·
PSECTABLES SP PSECTABLES SP PSECTABLES SP	'n'	<u> </u>	<b>5</b> ) 1		••••	111		<b>:</b> ''	<b>5</b> ''	₹'' ••••	: ''
+ MMFOTAKYTARSUS MP + MOBACKIA DEVILERA + STENCCHIRCHOMUS SP	•••	111	111	<b></b>	••••	111	111	•••	••••	••••	••••
+ STICTOCHIRONONUS DEVINCTUS + TANYTARSUS SP + RENOCHIRENDAUS SP	111	111		••••	••••	111	121	111	••••	••••	' <b>2</b> '
UNIDENCHINED CHIMDMONINI A	11			'ñ	•••	•••	, ,	• •	••••	•••	••••
EPMEREROPTERA MENAGENIA SP STENCHERA SP	ħ'	<b>3</b> 1		•••••	*****	11	1 1	21	21	•••••	<b>3</b> '
TRICOPTERA HUCH CELIFISIS SP NEUR ECLIFISIS SP	111	111		'h'	•••••	111	<b>12</b> 1	111	•••••	.111	
DOTARY IA PLAVA UNIDENTIFIED TRICOPTERA	11	• •		••••	••••	11	11	11	••••	••••	••••

TABLE J-6d (cont.)

TANDMONIC CLASSIFICATION	• • •			MONBER	or one.	NUMBER OF ORGANISMS AT STATEOMS	STAT FONS			
	• • • • • • • • • • • • • • • • • • • •	:	• 110	+ 126			•	•	•	•
	•••			•••		**************************************		***	***	
CERATOROGONIDAE (NO LARVAL KEY) CHADBORUS SP EMPIDIDAE (NO LARVAL KEY)		121	161	' <u>h</u> '	121	'ñ'	131	· '!	3	: • • • • •
RAALLAGEA SP GOEDPIIIS SP RAAPUS SP	••••	••••	••••	211	••••	••••	••••	••••	••••	••••
PROGEMENTS DESCURUS	••••	11	••••		****	••••	••••	••••	••••	••••
MISCELLANGOUS INVERTEBRATES	•	•		******						
ACAR I NE LA TODA	11	,,	11	11	•••••	• • • • • •	12	' <u>*</u>	•••••	2' •••••
TOTAL MUMBER OF TAXA 610 + 520 + 1906 + 1906 + 1906 + 1808 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018 + 2018			-			410 + 323 + 711 + 466 + 1906 + 1532 + 8654 + 3218 + 8611 + 1864 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 + 1264 +				

TABLE J-6e

LAKE SEMINOLE WO MANAGEMENT STUCY - BENTHIC MACHOINVENTEBRATES (ORGANISMS/50 H)
CORPS OF ENGINEERS (CCNTRACT DACWOI-70-C-0101) PMASE II. CVCLE I (2/10-22/1970)
000 PASS TWO - CODED DATA USED

TAMONORIC CLASSIFICATION	•••			NUMBER	CIF DRGANS	NUMBER OF DREAMISHS AT STATIONS	ATION:			
	:	*:	+ 15A	138	180	100	3	101	. 1171	. 17
							***			
platymelhinthe s-turbellaria			****	••••	••••	••••		****	••••	••••
TUMBELLARIA Turrellaria g	11	11	••••		•••••	11	11	21	. 1 1	•••••
AMPEL 1 DA -M 1 RUD 1 NEA			•							
HIRUDINEA	1		••••			1	1	,	1	
ANNEL IDA-OL IGOCHAETA		•			••••					
MAIOIDAE		•••	•••	•••	•••	•••		•	•••	•••
MAIDIOAF	1		•		•••	• • • • • • • • • • • • • • • • • • •	'	š	1	1
TUBIFICIDAE	•••	•••	•••	•••	***	•••	444	•••	•••	•••
TUETFICIÖNE	1		1	•	. 523	1	2	1	4	•
MI SCELLANFOUS	• • •	•••	•••	•••	•••	• • •	<b>+</b> • •	•	•••	
ENCHATRAEIDAE NEW GFNUS		1	1	•	•	. 2785	,	,	,	•

TABLE J-6e (cont.)

TAMONDAIC CLASSIFICATION	•••			NUMBER OF	F ORGANISMS	MS AT STATION:	A710M:			
	:	:	154	. 158	781	194	3		Ë	
			****************	********						• • • • • • • • • • • • • • • • • • •
MOLLUSCA	• • • •	•		• • • •						•••
CASTROPODA	•			•••						•••
COMBICUL & MANTLENSIS CONTOBASIS ALBANYENSIS • MELISOMA SP	m I I	111	2''	h i	<b>8</b> ''	811	ņ	111	211	211
PHYSA SP	'	,	'		1	•	•	,	•	
OICALVIA	•••	•••	•••	•••			•••	•••	• • •	•••
EUPERA CUBENSIS	1	,		1	•	•	•	1		
ARTHORDODA-CRUSTACEA										
ASTLUS SP WALELLA AZTECA	11	, ,	11	11	1 1		11	21	11	
ARTHODODA-INSECTA										•
CHINCHON IDAE	• • •			• • • •						• • • •
ABLAGESMYIA CIPCTIPES ABLAGESMYIA PARAJANTA CHIRONOWUS SP	g i i	111	£'ī	1 1 9	111	,,,	111	112	Ē''	
CL JOOT ANY TARSUS SP CL AOOPEL MA SP COELOT ANY PUS SP	1 1 6	938	524	119	111	<b>•</b> • •	111	118		
CCRYMONEURA SP MEAR CCRYMONEURA SP MEAR CCRYMONEURA SP	111	111	111	111	111	111	111	111	ההי המה	••••
CRICCTORUS SP CRYPTOCHI PONOMUS FUL VUS CRYPTOCL AOOPEL MA SP	111	111	111	( h )	191	111	121	160	Ph I	••••

TABLE J-6e (cont.)

ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLOGICA  ENDOCCHIROLO	TANDWONIC CLASSIFICATION					HUBER	à	DREANTSHS AT	AT STATIONS	Ŧ				
		=	:	•	•	•	÷	* 104	•	•	•		•	=
				••										
	RINFELDIA NATENTOCHEA ENDOCHINGADIUS MP	• •	••	•••	++. 	• •	•••	•••	••	·•·	12	•••	•••	• •
	EPOICE CLADIUS SP	•	,	• •	••	•	•••	• • •	• • •	1	* 9	•••	• • •	•
Frantis (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	EURIETTRIELLA CARBULAGORNS EURIETTRIELLA GO	11	,,	•••	* * ·	11	•••	•••	•••	· • •	22	•••	•••	• •
	GLYPTO (ENDIPPS SP HICREPSECTRA SP	11	••	•••		• •	• • • •	•	•••		8 8 (	***	•••	
	PARACTIRCACING MONOCHRICES		•	• •	• •	•	• •	• •	••	• •	•	•	••	•
VANCTUS  WITHT A  CADISAN IN		121		••••		•••		••••	••••		55	' <b>?</b> '	••••	' <b>5</b> '
CANTUS C. LACTUS	PROCLADIUS SP PSECTROCLADIUS SP PSEUDOCHIRONGHUS SP		'n		<u></u>	111	••••	• • • •	••••	111	2 t 2 t 2 t 2 t 2 t 2 t 2 t 2 t 2 t 2 t	••••	••••	• • •
	RHEDTANYTARSUS SP ROBACKTA DEWLERA STENCCHIRONOMUS SP	•••	,,,	••••		•••	••••	••••	••••	111	221	••••	****	• • •
	STICTUCHIRONGHUS DEVINCTUS TANYTARSUS SP RENOCHIRONGHUS SP	• • •	111	• • • •	111	111		••••	••••	111	NN I	••••	• • • •	• • •
#1 111 11 #1 111 11		11		••••	••••	• •	••••	••••	***	••••	• i	••••	***	••
	EPHEMEROPTERA		•••	•••	•••		•••	•••	•••	***		•••	•••	
111 11		0 I	ů,		•••• ••	2'	••••	••••	••••	11	**	••••	••••	• •
	TRICOPTERA		• • •	•••	••		•••	•••	•••	•••		•••	•••	
· • • • • • • • • • • • • • • • • • • •	MYDACHTILLA SP NEUARCLIPISIS SP DECETIS SP	• • •	,,,	• • • •		* * *	112	• • • •	***	111	111	••••	•••	•••
	POTABVIA FLAVA UNIDENTIFIED TRICOPTERA	•••		• • • •	11	• •	••••	••••		11	no 8-	••••	• • • •	• •

TABLE J-6e (cont.)

TAMONOFIC CLASSIFICATION				NUMBER O	NUMBER OF DRGANISMS AT STATION:	HS AT STA	110N:			
•••	•	:	184	158	• 281		101	•	. 171	2
		•••			***	•••		•••		
CERATOPOCONIOSE (NO LARVAL KEY) CHADEGRUS SP EMPIGIOSE (NO LARVAL KEY)	502 	121	1381	101	111	3h1	• • • •	201	212	,,,
GEALLAGEA SP GOLDAUS SP KARPUS SP	111	111	111	111	111	110	111	111	119	111
PROGGRAUS DESCURUS	11	11	11	11	11	11	12	11	11	2'
MISCELLAMEDUS INVERTEGRATES	**************************************									
ACARI NEMATODA	• • • • • •	11	11	11	10	11		11	11	
	• • • • • • • • • • • • • • • • • • •		900	**************************************	, p	88	64	5 Z Z	-	N
· · · · · · · · · · · · · · · · · · ·	\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$	• • • • • • • • • • • • • • • • • • •	***		· · · · · · · · · · · · · · · · · · ·	•••	**			

TABLE J-6f

LAKE SEMINGLE NO MANAGEMENT STUDY - BENTHIC MACROINVENTEBRATES (ORCANISMS/SQ M) CORPS OF ENGINEERS (CONTRACT DACVOL-78-C-0101) PMASE II. CYCLE I (2/19-22/1979) *** PASS TWO - CODED DATA USED

TAKONONIC CLASSIFICATION	•••			NUMBER OF	DF ORGANISMS AT	SMS AT ST	STATION:		
	105	- 10E + 18H + 16H + 19H + 000000 + 000000 + 000000 + 000000 + 000000	A 01	101	761				
	g'	* * * * * * * * * * * * * * * * * * *	ħ1	11	<b>g</b> '		***		
AMELIDA-MIRUDIMEA			•						
H18U01 NEA			ĥ	1	1				
AMMEL 1DA-QL 1 GDCHAETA	•	****							
MATOTDAE MATOTDAE	ı	<b>6</b>	1	1	. n				
TUBIFICIDAE	1		•••••	'	<b>,</b>		****		
MISCFLLANEDUS ENCHYTRAEIDAE NFW GEMUS	'	• • • • • • • • • • • • • • • • • • •	1	· · · · · · ·	1				

TABLE J-6f (cont.)

TAXONCHIC CLASSIFICATION +				HUMBER C	OF ORGANISMS	ŧ	STATIONS			
	<u> </u>		•		Ē	•	•		••••••	
·*************************************	• • • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • • •						
MOLLUSCA				• • • •		• • •			•••	
GAS TROPODA						•••	•	•••	•••	••
CORBICULA MANILENSIS GONICOASIS ALDANYENSIS MELISCHA SP	N 1 1	1881	2392	9 ; ; 2	\$15 175					
ds vsame	'	•	,	•	2			•		
81 4 / 4 1 4						•		•••	***	
ECOTOR CUBENSIS	1	1	,	,						
ARTHROPODA-CRUSTACEA			: : : :	* • • • • •	•	•	•		•	••••
ASELLUS SP Myalella azteca	11	11	11	•••••	••••	***	•••	•••	***	•••
ARTHROPODA-INSECTA			•	•	•	•	•	•		•
CHIRCNON LOAE				• • •	• • •	•••	•••	• • •	•••	• • •
AGLABESMYIA CINCTIPES ABLABESMYIA PARAJANTA CHIRCHOMUS SP	111	111	111	••••			****			
CLADGTANTTARBUS SP CLAOGRELMA SP CCELGTANYPUS SF	111	111	111	111	111	****	***	****		
CORYNUME URA SP MEAN CORYNOMEURA SP NEAR CORYNOMEURA SP B	111	111	111	• • • • •	••••					
CRICCTOPUS SP CRYPIGCHIRONCHUS PULVUS CRYPICL ADOPELMA SP	111	111								

TABLE J-6f (cont.)

TAXONOMIC CLASSIFICATION	•••				OF DREAMISHS	F	STATIONS		
	<b>3</b> .	•	3	=	•		- 1 :		
**************************************									
epologiadius sp Euxieppepiella Carulescens Euxieppepiella sp				••••	••••				
GLYPTOTENDIPES SP MICROPSECTRA SP PARACHIRCNORUS MINOCHROMIS			• • • • • • • • • • • • • • • • • • • •	••••	••••				
PARALAUTERBORMIELLA MIGPOMALTERALIS POLYPEDILUM MALTERALE POLYPEDILUM MEAR ILLINDENSE	! <b>!!</b>	1 6 1	111		••••				
PROCLADIUS SP PSECTROCLADIUS SP PSEUDDCHIRDHONUS SP	••••		-111	••••	••••				
RHEGTANY TARSUS SP RCBACKIA OFWIJERA STRUCCHIRONOMUS SP	••••		111		••••				
STICTCCHIRCHOMUS DEVINCTUS Tanttarsus sp Xenochirondhus sp	• • • •	111	111						
UNDESCRIBED CHIMONOMINI A UNIDENTIFIED SATHOCLADIAN M	••••		• • • • • • • • • • • • • • • • • • • •	••••	••••				
EPHENDRICHA Mexagenia sp				••••	• • • •				
N.	• • • •		•	• • • •	• • • •				
MICOTOR AS SELECTION OF CELL PLANCES SELECTI	••••	111							
POTANYTA PLAVA Unidentified tricoptera		21	••	• • • •	<u>.</u>				

TABLE J-6f (cont.)

TAKONOMIC CLASSIFICATION	•••			NUMBE	8	ORGAN? S	NUMBER OF ORGANISMS AT STATIONS	T10N1			•
	. 101	:		•	•	•	•	•		• • • • • •	•
STORY TILES											
CERATOPOCONIDAE (NO LARVAL KEY: CHACHORUS SP EMPICIOAE (NO LARVAL KEY)					191	111		****	***		
MATELACEA SP GORDHUS SP NATEUS SP	••••		••••	• • • •		115					
PRCCCHPHUS DESCURUS Unidentified Coleoptera	•••••		!! 	••••	· • • • •	• •		•••	•••		
MISCELLANEDUS INVERTEBRATES		•	•	•	••••		•				
ACAR I Në matoda	•••••	••••	• • • • • •	•••••	• • • • • •	• •					
TOTAL MUMBER OF TAXA  NUMBER OF TAXA  NUMBER OF TAXA  NAME OF TAXA  NAME OF TAXA  NAME OF TAXA  NAME OF TAXA  NAME OF TAXA			*		5 N						

LAKE SEMINOLE WE MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISHS/SO M)
CORPS OF ENCINEERS (CONTRACT DACWOL-78-C-0101) PHASE II, CYCLE 2 (4/2-4/1974)

TAXONDHIC CLASSIFICATION			N	NUMBER OF	ORC4NI SMS	HS AT	AT STATION		••		
	Ä		3.	£		***	Æ	₽E +++	+++ <del>1</del>	<b>₹</b>	+++
PLATVÆLMINTÆS-TURBELLARIA + + + + + + + + + + + + + + + + + + +				• • • • •	• • • • • • • • • • • • • • • • • • •	•••••		• • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * *		* * * * * * * * * * * * * * * * * * *
TURBELLARIA B	1 +	10	592	525	*****	11	15	.56	187		
ANNELIDA HIRUDINEA		* * * * * *	* * * * *	• • • • •	••••	••••		<u>.</u>	: : : : : : : : :	<u>:</u>	
HIRUDINGA					• • • • • •	• • • • • • I	1				••••
ANNEL IDA-DL I GOCHAFTA			* * * * * *	****	<u>:</u>	•	<u>.</u>				
NAIDIDAE	2	1	i	• • • • •	• • • • •	•••••	'				••••
TUBIFICIONE TUBIFICIONE	1	1		1 •••••	••••	• • • • •	1				****
HISCELLANEDUS ENC:YTRA:IDAE NEU CENUS		1			*****	++++	1		****		••••

TABLE J-7a (cont.)

	•				NUMBER OF CREANISMS AT	SHS AT SI	STAT IUM:			
		<u> </u>	:	•	77	,	*		•	*
		• • • • • • •		• • • • • • • •	•	• • • • • • •	:	• • • • • • • • • • • • • • • • • • • •		
**************************************		******	****	•	***	***	***	***	• • • • •	• • • • • •
MOLLUSCA	• • •		• • •	• • •	• • •		• • •	• • •	• • •	• • •
GASTROPOOA	***	**	* * *	•••	•••	•••	•••	• • •	•••	•••
CORBICULA MANILENSIS CONICIANIS SP GYRAULUS SP	2243	068E	1140	E 1 1	2729	1738	524	1196	<b>4</b> 66	<b>2</b>
PHYSA SP			! • • •	ı • • •	1	•	1	1	1	
BIVALVIA	***	**-	•••	•••	•••	• • •	• • •	•••	•••	• • •
UNIONIDAE	1	1	1	• • •		1	1	• •	1	,
ARTHROPODA-CRUSTACEA	• • • • •		* * * * *	••••	• • • •	• • • •	* * * * * *	• • • • •	••••	•••
ASELLUS CP HYALELLA AZTECA	11	11	11	11	11	11	11	11	11	11
ARTHROPODA-INSECTA	<b>.</b>						* * * *			• • • •
CHIRONOMIDAE	+++		* * *	•••	•••	++-	***	+++	* * 1	•••
ADLABESHVIA ANKULATA ADLABESHVIA PARAJANÍA NEAR CHEKNOVSKIIA DREICUS		111	111	111		311	111		110	
CHIRONDHUS SP CLADOPELMA SP CLADOTANYTARSUS SP		111	• • • • •	; ; ;	111				111	
COELOTANYPUS SP CONCHAPELOPIA SP CORYNOWELIRA SP	111	111			111			111	111	
NEAR CORYNOMEURA SP NEAR CORYNOMEURA SP 8 CRICOTOPUS SPP	6	111	111		111	001	101	151	<u>.</u>	<b></b>

TABLE J-7a (cont.)

Teather Chancer 1004	• • '•						2	NCHES & OF	C E C	CROANISMS AT STATIULE	S AT	37.47	3							
	• • •	N		•	~	•	•	7	7	•	Ā	•		•	*					
+ CRYPTOCHIRONOWS CF FOLI  CRYPTOCHIRONOWS FLVUS  CRYPTOTEROIPES SP	• • • • •	111	<b>::</b>	111		9 1 1	•	111		***	111	***	111	***	• • • • •	• • • •		111		111
DICADTENDIPES NERVOSUS EINFELDIA NATHITOCHEA ENDOCHTRINGHUS SP	++++			111		111	****	••••			111	++++	111	****	111	++++		****		111
EPOICOCLADIUS SP CLYPTOTENDIPES SP MARNISCII^ SP	++++	111		111		111	****	111		* * * *		* + + +		++++		++++				1 4 1
MICROCHIRGING OF HICROPSECTIRA SP PARACLATOFELIA SP	****	111		111		111		111		• • • •		++++	111	• • • •	• • • •	• • • •				111
PARATENDIPES "CONNECTENS" (A) PARATENDIPES SP POLYPEDILUM MALTERALF	++++	111				• • •	<b>* * * *</b>			• • • •	111	++++	111	• • • •	• • • •	• • • • •				111
POLYPEDILLY SPP PROCEADIUS SP PSECTROCLADIUS SP	++++	211		111		111	••••	111		• • • •	111	****	111	• • • •	111	• • • •				111
PSEUDOCHIRGRONUS GP RIEDTANYTARBUS GP ROBACKIA DEMIJERA	• • • •	151				111	••••			• • • •	110	++++	111	++++	168				-	1.10
STICTOCHIRONOMUS DEVINCTUS THIENEMANNIELLA XENA XENOCHIRINOMUS SP UNDESCRIBED CHIRONOMINI A	<b>* * * * *</b> *	101		1111		111 1	• • • • • • •			• • • • • • •	161 1	• • • • • •	111 1			• • • • • • •		• • • • • • • • • • • • • • • • • • •		111 1
EPHETEROPTERA CAENIS SP HEXAGENIA SP STENONEMA SP	• • • • • • •	111		111		111		111			111	******	111	*****	*		4,			111
TRICOPTERA MEURECLIPISIS SP DECETIS SP POTAMYIA FLAVA	*****	111		111		* 1.1					111	*****	111	*****	111	*****		111		111
UNIDENTIFIED TRICOPTERA	***		• • •	1	• • •	•	• • •	• • • •		• + + •	1	• • •	ı	• • •	1	• • • ·				
	r			•			•	۲		-		Þ		۲			İ			١

TABLE J-7a (cont.)

TAKENCHIC CLASSIFICATION				NUMBER	OF URCANE	NUMBER OF URGANISMS AT STATIONS	AT 101:			
••••	ñ	2	2	***	7	· # ·	*	*	•	*
				**************************************			• • • • • • • • • • • • • • • • • • • •			•••
MISCELLANEOUS INSECTA			• • •	• • •		• • •	• • •	••	••	
CERATOPOGONIDAE (NO LARVAL MEY)		111		•••	11.	111	111			
CHAIDIDAE (NO LANVAL MEY)			1		1	++-	1	• • •	11	1 1
PODURA AGUATILA	11			• • • •		• • • • : :				
**************************************	***************************************	***	•	***	**************************************	~ * * * * * * * * * * * * * * * * * * *	****	~ • • • • • • • • • • • • • • • • • • •	**************************************	•
MISCFILANEDUS INVERTESRATES+			• • • •	• • •	• • •	***	***	****	****	
NEHATODA	1				1	,	1	1	ı	,
SHB IN		388	201		2766	747 + 2746 + 2842 +	500 800 800 800 800 800 800 800 800 800	1570		
NUMBER OF TAXA		n	* + -	• • •	*	•	7	· • •		

TABLE J-7b

LAME SEMINCLE WO MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISHS/SO H)

CORPS OF ENCINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 2 (4/2-4/1979)

*** PASS TWO - CODED DATA USED

+ 5M + 5W + 6F + 6M + 6W + 7E + 7M + 7W + 6W + 6W + 6W + 6W + 7E + 7M + 7W + 8E + 8M + 6W + 7E + 7M + 7W + 8E + 8M + 6W + 7E + 7W + 7W + 7W + 7W + 7W + 7W + 7			_	NUMBER OF		DRCANISMS	AT STATION	š					
	¥***	<b>a</b>	+ + +	***	£	₹	+ + +	£	+++	3,	96	+++	<b>E</b>
	***	****			77		***	**************************************		***	***		
PLATYHELMINTHES-TURBELLARIA++++++++++++++++++++++++++++++++++	•			• • • •			• • • •	• • • •	• • • • •	• • • •		• • • •	
+ TURBELLARIA B + + + + + + + + + + + + + + + + + +	+++++ 1924	187	16	++++++ a-ni	12		+++++	374	*****	11	1.1	•••••	1.1
ANNELIDA HIRUDINEA	*****	•	•	•	7 •		• • • • •	•	•••••	• • • • • •		• • • • •	
+ HIRUDINGA + + + + + + + + + + + + + + + + + + +	• + + + + I	ı			ı		; ; * * * * *		• • • • •	,	•	****	1
ANNEL I DA -OL I ODCIMAETA	••••		•	•••			<u>.</u> 	: • • • • • • • • • • • • • • • • • • •	• • • •	***		••••	
MAIDIDAE +	1			• • • •	1				• • • •	· <b>* * *</b> •	1		
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TABLE J-7b (cont.)

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POTAMYIA FLAVA UNIDENTIFIED TRICOPTERA	• • • •			• • • •	• •			. 5		
MISCELLANCOUS INSECTA CERATOPOGONIDAE (NO LARVAL KEV) CHADBORUS SP (NO LARVAL KEV)	111	161		111		611	111	ķi i	111	116
ODMPHUS SP NARPUS SP POLURA AGUATILA		111	112	•••••					• • • • •	111
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TABLE J-7c

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LAME SEMINALE WO MANAGEMENT STUDY - BENTHIC MACROJHVERTEBRATES (ORGANISHS/SO M)
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*** PASS TWO - CODED DATA USED

PLAT = IMMINDER-TURBELLANIA   PAT   106   104   116   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117   117	TAXONONIC CLASCIFICATION			<b>.</b>	NUMBER OF DR	DRCANISMS AT STATION	T STATION	•	••		
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TABLE J-7c (cont.)

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TABLE J-7c (cont.)

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TABLE J-7c (cont.)

TARCHANTE CLASSIFICATION •	• • •				NUMBE	a F	DRCANE	NUMBER OF DRGANISMS AT STATION:	STATEU	::			
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**************************************	• • • • • • • • • • • • • • • • • • • •	:: :: ::++	***		•••	***		•••	•	**	•••	•••	
NEURECLIPISIS SP OECETIS 3P POTAMYIA FLAVA	++++	++++	+ + + + ·	f 1 1	<b>111</b>	++++	111	111	++++	111	111	++++	161
UNIDENTIFIED TRICOPTERA	, ,,,	• • •	+++	•	• • •	• • •	1		+++	• + +		1	ı • • •
MISCELLANEOUS INSECTA	+++	+++	+ + +		***	+++	· • •		+++	+++	ı	+++	* * * *
CHADDOGNIDAE (NO LANVAL MEY) CHADDONS SHOW LANVAL MEY)		++++	• • • • • • • •	111	· + + +	• • • •	111		• • • •	• • • • • • •	21	. 1:1	· 5 ·
GOMPHUS SP NARPUS SP PODURA AGUATILA	111		6:1	151	:	****	111	111	****	111	111	111	
######################################	• • • • • • • • • •		* * * * * * * * * *	• • • •	• • • • • • • • •	*****	*	<b>*</b> <del>*</del> <b>*</b>	••••	*****	* * * * *	** * * * * * * *	*****
NEMATODA			1	•			1				ì	1	
TOTAL NUMBER OF ORGANISMS NUMBER OF TAXA	<u> </u>	=======================================	1326	1215	9		4 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			60 40 40 40 40 40 40 40 40 40 40 40 40 40	4 512 4		*****

TABLE J-7d

LAKE SEMINULE WG MANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISMS/SO M)
CORPS OF ENCINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 2 (4/2-4/1979)
*** PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION	• • •		ž	NUMBER OF GROANISMS AT STATION	CANISMS A	T STATION				
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PLATVHELMINTHES-TURBELLARIA+		+ + + + +	• • • • •	• • • • •	• • • • •	* * * * *	* * * * *			
TURBELLANIA TURBELLANIA D	1 1	11	11	<u>6</u> 1	11	11	11	11	11	11
ANNELIDA: HIRUDINEA	*	• • • • • • • •	* * * * * * * * * * * *	• • • • • • • • • •	* * * * * * * * *	* * * * * * * *	• · · · · · · ·			· · ·
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NAIDIDAE					• • • • •		1	1	1	1
TUBIFICIDAE TUBIFICIDAE	783	617	187			<u></u>	168	£3	6	
MISCELLANEOUS ENCHYTRA:IDAE NEW CENUS					••••		1	(	1	

TABLE J-7d (cont.)

TASENCATE CLASSIFICATION				RUMBER	F ORCAN!	NUMBER OF DRGANISMS AT STATION:	AT 10h:			
•••	136	134	. 13w	. 146		:	+ 15f	101	154	
			******	`*************************************					*******	
MOLLUSCA				***	•••	• • • •	•••		•••	
GASTROPODA	• • •		• • •	• • •	• • •	• • •				• • •
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TABLE J-7d (cont.)

TABLE OF BUILDING STATES	••				NUMBER	NUMBER OF ORGANISMS AT	CANIS	NS AT S	STATION:	••					
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TABLE J-7d (cont.)

•••				2000	CF ORGAN	NUMBER OF ORGANISMS AT STATION:	A 1 10%:			
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TRICOPTERA										
NEUMECLIPISIS SP + + OECETIG SP + + POTAMYIN FLAVA	111	111	111	111		•••	<b>5</b> 11		111	<u></u>
UNIDENTIFIED TRICOPTERA	,	• • •	•	1		,			,	,
MISCELLANEDUS INSECTA +	***	***								
CERATORGONIDAE (NO LARVAL KEV) + CERATORUS SP EMPIDIDAE (NO LARVAL KEY) +	1692	374	617	111	111	131	111	101	111	111
COMPHUS UP NARPUS SIV PODURA ARUATILA	111	111	111	111	111	111	111	211	211	111
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NEMATODA	1	•	•	6	ı	,	1	<u>6</u>	1	
TOTAL NUMBER OF TAXA	1720 B	1700	1720	1627	8.55 1.25	689	89 4	1066	<b>1</b> 00	0 9

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TAXONOMIC CLASSIFICATION			2	NUMBER OF ORGANISMS AT STATION	CANISMS A	T STATION				
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	1 1	11	 E			2579	11	101	<b>6</b> .	*****
AMELIDA-HIRUDINEA			• • • • • • • •		* * * * * * *	-				• • • • • • •
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NAIDIDAE NAIDIDAE	1				<u>.</u>	6	1	ı	1	
TUBIFICIDAE TUBIFICIDAE	ĝ	6	3,	2		1	Ę	ı	2	
HISCELLANEOUS ENCHYTRAEIDAE NEH GENUS	ı			1		1	ı	ı		

TABLE J-7e (cont.)

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206	MOLLUSCA				· • • •	• • • •	• • • •				
205 3952 2873 4467 3103 3352 32873 3474 3474 3474 3474 3474 3474 3474 3	GASTROPODA				• • •	• • •	• • •			• • •	• • •
	CRBICULA MANILENSIS CONTODASES SP FYRAULUS EP	& '	111	<u>5</u> 11	3103	3533	3252	2673	4467	1047	
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		+++++	1	1	1		· · · · · ·	,,,,,	1		
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	SELLUS SP N'ALELLA AZTECA	11	11	11	11	11	11	11	11	11	4 4
CHOCKLIDAE  LATA JANIA  A GRRICUS  19	ARTHROPODA-INSECTA	• • • • • • • • •	• • • •	* · · · · · · · · · · · · · · · · · · ·	* * * * * *		• • • • • • •	• · · · · · · · · · · · · · · · · · · ·	• ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	- - - - - - - - - -	
25	CHIRCHONIDAE 31.ABESHVIA ANNULATA 31.ABESHVIA PARAJANIA 15.EAR CHERNOVSKIIA ORRIGUS	<u></u>	111	111		• • • • • • •	111	111	111		***
+ 1 + 1 + 1 + 1 + 1 + 1	HIRONOMUS SP LADOPELMA SP LADOTANYTARSUS SP	3331	111	111	111	11'	111	111	111	110	
*   *   *   *   *   *   *   *	COELOTANYPUS SP CONCHAPEL DPIA SP CORYNONEURA SP	33'	111	111	111	111	111	111	110	31.	

TABLE J-7e (cont.)

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STICTOCHIRGNOMUS DEVINCTUS	+	+	ı		•	• •	1	•	+	•		1	•	+	,	*****	*
THIENEMANNIELLA XINA	+	+	•		ı	+	•	•	<b>.</b>			+	•	+ ·	•	***	***
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TABLE J-7e (cont.)

TAKENEWIC CLASSIFICATIEN				NUMBER	OF ORGANI	NUMBER OF ORGANISMS AT STATION:	A710N:			
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▼				**************************************	• • • • • • • • • • • • • • • • • • • •		• • •	•••		
NECARCLIPISIS SP	1		1	1		• • •	1	1	51	***
STARY TA FLAVA	1:		11	'E:	1 <u>0</u> 2	' <u>c</u>		11	9	
UNIDENTIFIED TRICOPTERA		1	1		١			i	•	•
MISCELLANEDUS INSECTA				••		• • •	• •		• • •	
ERATOPOGONIDAE (NO L'ARVAL KEY)	6	<u></u>	6	1	١			1		******
LADBORUS SP EMPIDIDAS (NO LARVAL KEY)		,,	11	••		++			••	***
43 SOLVEN		11	111	111			111	111		
	1			• • •						• •
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NEMATODA	)£	, , , , , ,	1		1	;				*
TOTAL NUMBER OF ORGANISMS	1684	613	112	4913	9260	6486	200	4617	1365	1365 + + + + + + + + + + + + + + + + + + +
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TABLE J-8a

LAKE SEMINDLE WG MANAGENENT STUDY - BENTHIC MACROINVENTEBRATES (GRGANISHS/SO M)
CORPS OF ENGINEERS (CONTRACT DACWCI-78-C-0101) PHASE II, CYCLE 3 (6/4-6,1979)
*** PASS TWO - CODED DATA USED

באלתוכי ברשפתו זכעו זכעו	<b></b> .		<u>Ş</u>	SER OF C	NUMBER DE DRCANISMS AT STATION	T STATION				
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HIRUDINGA	1	1	,,,,,			1	1	1	1	
ANNELIDA-OLIGOCHAETA		• • • • • •	<u>:</u> :	•	• • • •	• · · · · · · · · · · · · · · · · · · ·	•	* · · · · · · · · · · · · · · · · · · ·		
NAIDIDAE		1					1			
TUBIFICIDAE		1				1	1	3,	<u>c</u>	1
MISCELLANEOUS ENCHYTRAFIDAE NEW CENUS					++++	1	1	,,,,,,	,,,,,,	% *

TABLE J-8a (cont.)

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CORBICULA MANILENS:S + GYRALLUS SP + GYRALLUS SP + LAEVIPLEX SP	37	2	PI I	111	27	8, ,	198	1	748	1159
SIVALVIA  * EUPERA CUBENSIS  * SPHAERIUM SP  * UNIONIDAF	111	1	111	111	111	111	111	111	111	111
ARTHROPODA-CRUSTACEA										* * * * *
+ ASELLUS UP + HYALELLA AZTECA	11	11	11	11	11	11	11	11	† 1	11
AR THROPOUN-INSECTA			• • • •			* * * *		* * * *	****	• • • •
CHIRONOMIDAE  ABLABESMYIA CINCTIPES  ADLAGESMYIA HARLOCHI  ADLAGESMYIA TARELLO.	111	111	111	***		111	111	111	+++++	111
+ NEAR CHENNOVSKITA DRRICUS + CHIRONOMUS SP + CLADOTANY TARSUS SP	\$11	611	E911	111		1 1 1	'n	64.1		816
+ COELOTANYPUS SP + CORYNONEURA SP + NEAR CORYNONEURA SP	111	111	111	111	855	111	111		111	111

TABLE J-8a (cont.)

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+ NEAR CORYNONEURA SP B	+ +	<b>3</b> '	• •	**	٠+		<b>+</b>	+	:	•	+ ·	1	
+ "CRYPTOCHIRONOTUS" CF ROLLI SP B		1	++	•	++	1	++	+ + 1	ı	••	+ + :	•	
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+ PSECTROCI.ADIUS SP	••	ı	ı • •	• •	+	١	• •	• •	1	••	++	•	•
+ RHEDTANY CARSUS SP + ROBACKIA DEMIJERA - ROINTOCH ROWDWUS DEVINCTUS	121	151	<u></u>	181 +++	+++	121	• • • •	• • • • • • •	41	n 	*** 61	280	% ' % '
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+ EPHEMEROPTERA			•••	• • •	• • •			++		++-	+++	•	1
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+ TAICOPTERA	**		**	**	++		• • •	• • •	١		+ <b>+</b> •	4	
+ NEURECLIPIBIS SP + POTAMYIA FLAVA	+++	11	•••	• • •	• • •	۱,	• • • •	• • • • • •	1		1	•	
+ HISCELLANEOUS INSECTA	++(		•••	•••	• • •		• • •	• • •		• • • •	+ + +	•	•••
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CHAGGORUS SP	••	• •	1 1 ++-	. 1	• • •	•	+ (	••	•	٠.	+ + •	•	, • •
	++		++		• •	1	• •	1	1	. •	++	• 1	• •
+ NARPUS SP + PODURA AGUATILA			••	++-	++	1	• • •	• • •	•	• • •	+ <b>+ +</b> 1		• •
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TABLE J-8a (cont.)

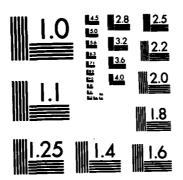
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MISCELLANEGUS INVERTEBRATES+		++++			****		* * * *			****			****		
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TABLE J-8b

LAKE SEMINOLE WA MANAGCHENI STUDY - BENTHIC MACRDINVERTEBRATES (ORGANISMS/SO M)
CORPS OF ENGINEERS (CG., IRACT DACAZI-78-G-0101) PHASE II, CYCLE 3 (6/4-6, 1974)
*** PASS TWU - CODED DATA USED

TAXONOMIC CLASSIFICATION	÷ + -		NON	BER OF OF	CANISHS	NUMBER OF ORGANISMS AT STATION				
		* ÷ +	£ ₽ +++	<b>₽</b>	• • •	₹ ••••	3	75	Ę ···	¥ + + +
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TURBELLANIA TURBELLANIA B	11	3477	542		2336	11	11			• • • • •
ANNELIDA-HIRUDINEA	* * * * * *		* * * * * * *	•		*		•		
HIRUDIMEN	! * * * * *				1	1	,	1		6.
ANNELIDA-DLIGOCHAETA	* * * * * *	· • • • • • - • • •	* * * * * * * * *	- • • • • •	• • • • • • • •	• • • • •	• • •	• • • •	 • • • • •	
HAIDIDAE	1	1					,	1		- + + + •
TUBIFICIDAE	168	<u>.</u>			<u>6</u>	• • • • •	8 84 83	078		897
HISCELLANE OUS	1	54	<u>*</u>				1	;		· • • • •

HATER QUALITY MANAGEMENT STUDIES LAKE SEMINOLE FEBRUARY-DECEMBER 1979 PHASE II(U) HATER AND AIR RESEARCH INC GRINESVILLE FL DEC 82 ACF-80-11 DACM81-78-C-9101 F/G 8/8 AD-R123 446 7/8 UNCLASSIFIED NL



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

TABLE J-8b (cont.)

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W.75/4 - 144										
GORBICULA MANILENSIS GYRAULUS SP LAEVIPLEX SP	9''	35°	p i	6 1 1 CV	748	187	E. I	<b>2</b> 11	<u>g</u> ''	611
BIVALVIA EUPERA CUBENSIS SPHAERIUM SP UNIDNIDNIC	111	111	111	111	111	111	111	111	111	
			* ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	•			• • • • • • • • • • • • • • • • • • •			•
ABELLUS SP WYALELLA AZTECA	11	11	( )	11	11	11	11	11	11	• • •
ARTHROPODA-INSECTA										
CHIRONOPICDAE							•			
ABLABESHYIA CINCTIPES + ABLABESHYIA HALLOHI + ABLABESHYIA TARELLO	111	1 # 1	111	111	111	111	111	111	,,,,	• • • •
NEAR CHENDVEKIIA DRAIGUS CHIRDWOTHS SP CLADGTANYTARGUS SP	111	111	111	<b>4</b> (C	6''		111	1 %	1: (	181
COELOTANYPUS SP CORYNONEURA SP MEAR CORYNONEURA SP	111	111	111	111	111		111	111		111
MEAN CORYNORDER BY BY CRAYPTOCHIRDNONG CF NOLLI	111	6	111	<b>3</b> 11	211	111	111	111		111

TABLE Jash (cont.)

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TANYTAREM SP	2			•		•	•	•	•	,	<u></u>	•	8	
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TRICOLIERA	• •		• •	• •		• •	•		• •			•	•	
MELARCLIPISIS SP	. •	•	•			•	•	1	•	1		•		•
OTARVIA FLAVA	**	•	• •	1	! 	• •		)	• •	<del>, ,</del>		••	,	•
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HISCELLANGUE INSECTA	••		• •	* *		• +		• •	• •	•		• •	•	
ERATOPOGONIDAE (NO LARVAL KEY)	1	1	•	•	•	•	•	1	•	,	•	+		1
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TABLE J-8b (cont.)

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HISCELLANGOUS INVERTEBRATES:		<b>+</b> +++	****		••••	****	- • •		****	· · · •			
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TOTAL MURBER OF CROANISHS		******	C C C	# T	•••••		3233	258	• • • • • • • • • • • • • • •	Ćć.	6.7		600

TABLE J-8c

LAKE BENINTLE WO HANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISHS/SQ H)
CORPS OF ENGINCERS (CONTRACT DACHOI-78-C-0101) PHASE [1, CYCLE 3 (6/4-6,1979)

+++ PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION				Z	NUMBER O	T 040	1 SHS IN	OF ORGANISMS AT STATION		•••		
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PLATWELNINTNES-TURBELLARIA-		<b>!!</b> !!		** ** ** ** ** ** ** ** ** ** ** ** **	*** *** *** *** *** *** *** *** *** **	* +		**************************************	:: :: :: :: ::		* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *
TUBELLASIA TURBELLAKIA B	11		11	11	*****	11	11	••••	••••	••••	+++++	*****
ANNEL IDA HIRUDINEA		: : :	• • • • •			<u>.</u> -		•		* * * * * * * * * *	• • • • •	• • • •
HIRUDINGA	•		1	!	****	1	ı		!			
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MISCELLANEOUS +			++++	•	****	****						

TABLE J-8c (cont.)

TAKUMINIC CLASSIFICATION		÷		NUMBER	LF CRGANE	NUMBER OF GREANISMS AT STATION:	AT IGN:			
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ARTHROPODA-CRUSTACEA					•	•	•		• • • • •	•
ABELLUS SP HYALELLA ATTECA		11	11	11	11	11	11	11	11	11
ARTHROPODA-INBECTA								• · · · · · · · · · · · · · · · · · · ·		
CHIRCHOLDES ADLABEENTIA CINCTIPES ADLABEENTIA TARELLA ADLABEENTIA TARELLA	111	111	111	<u>.</u>	111	611	111	111	211	111
MEAR CHENDVEKIIA DRAIGUS CHIROMORIA SP CLADOTANYIARUS SP	111	121	111	111	111	111	111	111	111	
COELOTANYPUS SP CORYNORIURA SP NEAR CORYNORURA SP	111	111	111	<b>2</b> 11	<b>2</b> 11	111	<u>.</u>	Ē,	<u>.</u>	.g. 1
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TARIE J-8c (cont.)

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TRICOPTERA	•	•	• •	•	1	••		1	•
NEUMECLIPISIS SP	• •	: :	•	1		1	•	••	•
POTATVIA PLACA	•	•	+ (		••	••	• •	•	
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WINCELLANGUE INDEX.	•	•	• •	•	•	•	•	•	•
CERATOPOGONIDAE (NO LARVAL MEY)	• •	. ,	• •	2	:	•	•	• •	
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TABLE J-8c (cont.)

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HISCELLANEGUS INVENTEGRATES	**************************************			••••	••••			•••••		•	••••	• • • • • • • • • • • • • • • • • • • •		•••
NEMATODA	,	•			*****	. 4	****	*****	1	•	*****			
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TABLE J-8d

LAKE SEMINOLE WG MANAGEMENT STUDY - BENTHIC MACROINVENTEBRATES (GROANISHS/80 H)
CORPS OF ENGINEERS (CONTRACT D/CWOI-78-C-GIOI) PHASE II, CYCLE 3 (6/4-6,1979)
+++ PASS TWO - CODED DAT/ USED

TAXONOMIC CLASBIFICATION				Ş	NUMBER OF DR	NOAN'SMB A	OF DRGANISME AT STATION				
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		<u> </u>	:: ::	<u>.</u>			•		** ** ** ** ** ** ** ** ** ** ** ** **		
+ TURBELLAWIA + TURBELLAWIA B + TURBELLAWIA B	11		11	11.		+++++	11	11	11		*****
ANNELIDA HIRUDINEA			•••••		• • • • •						• • • • •
HIRUDINGA	ı		+++++	•					1		
ANWELIDA -OLIGOCHAETA			••••	* *							••••
HAIDIDAE HAIDIDAE	1		. + + + +	1			!		1		
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HISCELLANE DUS  • ENCHYTRAFIDAE NEW GCNUS	1			ı			1	1	1	,	' • • • • • •

TABLE J-8d (cont.)

TAXONOMIC CLASSIFICATION	•••			NUMBER	OF ORGANI	NUMREK OF ORGANISMS AF STATION:	11 ION:			
	110	• 116	321	72.	124	vc1 •	981		106	
**************************************	- 4			· · · · · · · · · · · · · · · · · · ·		**************************************				
MOLLIESCA	***	***	• • •	444		•••			•••	•••
CORDICULA MANILENSIS EVRANLUS SP	11	11	Ž,	91	187	11	<b>5</b> 00	6'	<u>e</u> :	
ACUIPLEX SP		1						1	••••	••••
EUPERA CUBENSIS SPINAFRIUM SPINA UNICHIDAN	1 <u>0</u> 1	111	111	111	! ' <u>E</u>	111	101	1 1"+	111	
	-							* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	
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CHIRONOMIDAE		•••	• • •						• • •	• • •
ABLABESHYIA CINCTIPES ADLABESHYIA HALLOWI ABLABESHYIA TARELLA	1 1 1	• • • • • • • • • •	111	111	111	111	111		<u>6</u> 11	<u>5</u> 11
NEAR CHENDOSKIIA DREICUS CHIRONORMS SP CLADOTANYTARUS SP			111	111	111	111	111	121	111	
COELOTANYPUS SP CORYNOVEJRA SP NEAR CORYNOVEJRA SP	<b>3</b> ''	**** 89''	111	111	1 1 1	B. I	ъ. I	211	<b>#</b> 11	<b>P</b> ''
NEAR CORYNONEURA SP 8 "CRYPTOCHIRONOMEURA SP 8 "CRYPTOCHIRONOMUS" CF ROLLI SP 8	****	11.	111	111	111	111	111	111		••••

TABLE J-8d (cont.)

TAKONOMIC CLASSIFICATION	• • •		•		ž	ISEN OF	NUMBER OF DREAMISMS AT STATION:	ISMS AT	STAT						
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,									++4	****	***			• • • • • • • • • • • • • • • • • • •	
AUX TUT BUNDANDE HOUSE	1	• •	• • ı	•	• +	• •		•	+		•	i		•	•
DICROTHENDIFFER NEGRONS TOR	• •		• •	1	+ (	**	•	++	++	•	++	11		++	1
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PARALAUTERBORNIELLA NIGROHALTERALIS	1	• •	++	•	• •	•		•		1	• • •	1	•	• • •	1 1
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TANYTARGO BP			++	11	***	11		• • •	++	• •	• • •	11	1 1	++	1 1
		+4	++		++	* *		++	+ +		* *	**		++	
EPHENEROPTERA			+ 4		+ 4	• • •		• • •	+ +		++	* * *		**	
HEXAGENIA SP	53	*	• • •		٠+٠	• • •	1	<u>.</u>	•	\$ 1	• • •	• • •	73	+ 4	<u></u>
TRICORYTHODES ALBILINEATUS		• • •	*** ! !	1 1	• • •	• • • • •	1	•••	• • • • •	1	• • •			* * *	
TRICOPTERA		••	++		++	++	•	++-	++		++-	++•		<b>+ +</b> -	
AECRECLIFIBIES SP	•	••	++	1	++	++	9	••	**	ı	• •	• •	37	++	•
POTANVIA FLAVA	,		+ + 1	•	++	+ + 1	•	••	++	1	++	1	•	++	•
MISCELLANEOUS INSECTA			* * *		***	* * 1		***	++4		+ + 1	* * 1		• • •	
CERATOPOCONIDAE (NO LARVAL KEY)	11		• • •	11	•••	•••	1	108	* * *	11	* + +	710	• •	++	1
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TABLE J-8d (cont.)

TANDMONIC CLASSIFICATION					NUMBER	NUMBER OF ORGANISMS AT STATION:	PAS IN	AT ST.	AT 10N:				
	91-	116	•	126	76.	. 124	•	i 3A	EE 1	٠	130	# ·	***
######################################		; - + + + + + + +	•••••		•	•	*****		· · · · · · · · ·	•••••			
	1		****	1		++++	++++	ı	1	****	1	•	
+ + + + + + + + + + + + + + + + + + +	- ID CT	- • • • • • • • • • • • • • • • • • • •	••••••	Si E	262	• • • • • •	N O	906	8201 1028	*****	27.0	**************************************	

TABLE J-8e

LAKE SEMINDLE NO MANAGEMENT STUDY - BENTHIC MACROINVENTEDRATES (DRGANISHS/SO M) CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 3 (6/4-6,1979) *** PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION	. 4 4 4			NC TO	2R OF (	RCAN	¥ SMS1	NUMBER OF ORGANISMS AT STATION	7	••			
****	3	15A&3	+++	150 ++	16E	***	16N	164 154	+ 17E	***	£.	7	196
PLATVIELHINTHEB-TURBELLARIA	**************************************		******	* * * * * * * * * * * * * * * * * * *	*** ** **	•		; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	• <del>•</del> • • • • • • • • • • •	7. <del>1.</del> • • • • • • • • • • • • • • • • • • •		. <u>.</u> + + + + + + + + + +	• • • • • •
TURBELLAKIA TURBELLAKIA 3			• • • • •	11	11	• • • • • •	19	11	• • • • •	11	<u>.</u> 60	- <del>1</del>	
ANNELIDA HIRUDINEA	• • • • • • • • • • • • • • • • • • •	- - - - -	•••••	· · · · · · · · · · · · · · · · · · ·	• • •	• • • • • •			• • • • • •	* * * * * *			••••
HIRUDINGA ++	. 1		· • • • • •	1		****	1	1		++++	1	1	19
ANWELIDA -OLIGOCHAETA		• • • • • • •	••••	****		••••			****	****			• • • •
HAIDIDAE NAIDIDAE			* * * * *	+++++	37	****	1		, ****	++++	ı	<u>\$</u>	
TUBIFICIDAE TUBIFICIDAE	1	168	****	+++++	•	* * * * *	710	1477	500	* * * * * ·	\$		1163
MISTELLANEOUS ENCHYTRAFIDAE NEW GENUS		 	••••	• • • • •	1	• • • • •	ı		· • • • • •		24	8	

TABLE J-8e (cont.)

MOLLUSCA  ASTROPODA  CORRICULA MANILENSIS										
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MOLLUSCA +							• • • • • • • • • • • • • • • • • • • •		•	
CREICULA MANILENGIS + + + CREICULA MANILENGIS + + + + + + + + + + + + + + + + + + +	***	• • •	•••			• • •	• • •	• • •	• • • •	• • •
ORBICULA MANILENBIS +	***	***	***		•••	•••	•••	• • • •	•••	•••
ASUIPLEX SP	111	61	311	· 61	ي • • • •	911	811	611		783
****	+++	***	•					•••	•••	***
TOTAL CUBERSIS		1	1		1	1	1	. 1	.++	
ONIONION:	•••	•••	11		•••	•••	11	•••	•••	+++
***	+	•					**	**		
ARTHRO-CRUSTACEA	****	7					• • • •	•••	****	* * * *
ASELLUS SP ++	1.1	11	11		• • • • •	• • • • •	• • • • • •		• • • • •	<u>.</u>
	•	***	***			***	•	•		
ARTHROPODA-INSECTA +	****	* * * *			• • • •		• • • •	•••		• • • •
CHIRCHON) DAE	• • •	•				. + + .		• • •		
ABLABRONYIA CINCIIDES ABLABROSYIA MACHOCKI ASSESSIVIA MACHOCKI	ñ''		111		. 1 5	· + + +				111
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COELOTANVPUS SP + + CORYNOVENS SP + + + MEAN CROSVANA SIDA SB + + + + + + + + + + + + + + + + + +	r: '	# * * * 8 ' '	6'		#++	 	111	111	121	, , , , , , , , , , , , , , , , , , ,
NEAR CORVIGERA SP B CL. 1 + + + CRAVIDALIS CR BCL. 1 + +	11	11	11	11		<u></u>	11	974	360	

TABLE J-8e (cont.)

						DEGRAISME AT TAX COM	77 A T [1.3M I			
		SACH	190	105	101		* 1	#/: +	- 7	181.
							• • • • • • • • • • • • • • • • • • • •			
SAVETOCITEDADINE FULINE		•	1	. +	61	1.0	, <del>,</del> ,		96	• •
DICACTENDIFES NECROSSIVE	11	•	l )	••	••	++	••	••	• •	• •
	,	•		• • •	•	•	+ 4	•	••	••
		• •	• •	• •	• •	*	•	•	•	•
NICOTACES OF SECTION	•	•	1	+	<u>.</u>	i ++	++	••	••	++
ARALAUTERBORNIELLA NI GROMALTERALIS	1	1	1	,	•	<b>6</b> 7	1 :	1	•	•
PARATENDITERS BORAEGIAL IS		i i	••	••	·+	·	1 1 ++	• •	<b>R</b>	• •
	•	•		•	•	• •	•	++	+ 1	٠.
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	1	; '		•	ŧ. ◆◆	**	++	1	••	٠.
*		,	1	•	•	•	+	•	•	
ROBECKIA DEFICERA	•	•	•	<b>.</b> ♣*•	+ :	4	•	998	e (	٠.
HICTOCHIROROPUS DEVINCTUS	. 1			• •	<u>.</u>	• •	• •	: > +	• +	•
TANYTARGUS BP	÷.			•	•	+	<u>+</u>	•	•	• •
TENDCHIRCHORUS BE		1	ı	•	• •	• •	· .	: • •	•	• •
* VENTACENTAL S	• •	••	••	**	••	**	••	••	• • •	• • •
	,	**	, tat	• •	••	++	•	• •	•	· +
	21	31	<u>.</u>		+	96	+ 149	1	•	•
TRICORVINDES ALBILINEATUS	ı	1	1	ı ++	••	••	• •	ı ••	•	• •
**************************************	• •			••	••	••	**	••	•••	<b>* *</b> •
	•		•	•	+ 4	•	• •		• •	• •
	11	i 1	11	••	• •	: :	•	•	) <b>]</b> .	
	*	•				•	• •	•	• •	• •
HIBCELLANEOUS ENSECTA +				• •	• •	••	•	• •		• • •
	1	. 1		• •	••	••	• •	•	•	• •
CHANDONC BP CTO LORVAL NEV	,	154	131	•	•	•	4	•	•	• •
THE STATE OF	!	1		••	<u>.</u>	• •	• •	•	• •	• •
* C BUSAN	ı	1	1		•	101	27	• •	• •	• •
FODURA AQUATILA		1	•	•	•	-	) }	•		• •

TABLE J-8e (cont.)

	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\													<b>:</b>	
TAMENDAIC CLASSIFICATION	. 4 4 4				3	5	04044	NUMBER OF ORGANISHS AT STATISMS	7 31 4	T [1.3M E					
• • •	16W + 18A6M + 15C	18AE	•	130	191	•	# <b>9</b> 1	K1 + 521 + 591 + 391 +	•	2	•	• 171 •	- 72	•	186
			· · · · ·	-	- • • • •	••••		• • • • •			• • • • •	• • • • •		••••	
NEMATODA	ı			1	• • • • •	• • • • • •	1	• • • • •	• • • • • •	4	*****		<u>.</u>		1
TOTAL NUMBER OF CROANISHS NUMBER OF TAXA	206 + 681 + 430 + 93 + 936 + 3403 + 766 + 86 + 86 + 3403 + 766 + 86 + 86 + 86 + 86 + 86 + 86 + 8		· · · · · · · · · · · · · · · · · · ·	0E.6 B	• • • • • •	g n	<b>6</b> 01	******	3403			1800	1833 21	•	1983
			-			<u> </u>			<u> </u>	***	· · · · · · · · · · · · · · · · · · ·	***		-	***

TABLE J-8f

LAKE BEHINNLE WG MANAGHENT STUDY - BENTHIC MACROINVENTEBRATES (GRGANISHS/BG H) CCRPS OF E.JINGERS (CONTRACT DACWOI-78-C-0101) PHASE II. CYCLE 3 (6/4-6,1979) +++ PASS TWO - CODED DATA USED

TAKONOMIC CLASSIFICATION	•••		MJABER	8	ORGANISHS AT	AT STATION		•		
	<b>1</b>	3	184 + 19E + 19H + 19U	£ -	3	DATA .	•••	• •		
PLATWELHINTHES-TURSELLARIA+		•			••••					•
TURBELLARIA B	9-90 	<u>.</u> 1	11	126	11 .				***	***
AMELIDA HIRUDINEA				**************************************	•	•	• • • • • • • •			• • • •
TING THE T		,								
AMMEL FDA -OL I GOCIMETA MATDIDAE									•••••	
TUBIFICIDAE TUBIFICIDAE	<u> </u>			* * * * * * * * * * * * * * * * * * *	<b>.</b> .					
MISCELLAMEOUS ENCHYTRAFIBAE NEW ODSUS	1	'		· • • • • • • • • • • • • • • • • • • •	1					
				•	•		**			'

TABLE J-8f (cont.)

TAXONCHIC CLASSIFICATION	•••			NUMBER	OF ORGANISMS	*	STATION:			
	10:	, ne.	<u>*</u>	761 ·	161	•	•			
MOLLUSCA	***	***	***	•••	•••	•••	•••		***	•••
GASTROPODA CORSICULA MANILENSIS OVRAVLUS SE LAEVIPLEX SP	82.	<b>6</b> 11	302	61	# 1 m	*****	****	****		***
BIVALVIA SPIAERIUH SP UNIONIDAL	<b>P</b> 11	111	111		111	**********		**************************************	****	**************************************
**************************************						<u>.</u>		-		÷
ASELLUS SP HYALELLA AZTECA	11	11	11	11	••••	***		*****	****	***
ATTHROPODA-INSECTA		- • • • • • • • • • • • • • • • • • • •	* 			-		• • • •	• • • • • •	•
CHIRCHCHIDAE ABLABESTVIA CINCTIFES ABLABESTVIA MALLOCHI ABLABESTVIA MALLOCHI	111	111	111	111	111					
NEAR CHEMOVSKIIA GREICUS CHIROMORIS SP CLADGIANTARSUS SP		111	111	111					****	
COST.OTANYIUS SP CONTROPELIA SP NEAR CONTROPELIA SP	111	111	(11	111	111		***		****	
MEAR CORVINGURA BP B CRULI BP B CRYPTOCHIRONONUS CF ROLLI BP B	111	111	111	!!!	111	***		***		
CRYPTOCHIRONORUS FULVUS DICROTENDIPES MEGNODESTUS OLYPTOTENDIPES SP	111	115	111	111	111					
			-			•	:			

TABLE J-8f (cont.)

+ ADILEUIAISSA DU DIRORUMAL					RINGER	JER OF	P CHCANIUM	<b>`</b>	5747 [343			
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	•	• •		:			•		****	*********	*****	•
ARTICETTA OF	• 1	• (	• •		• •	• •	1 #	****	*****			
		•	• •		• •	+	•	******	*****	******	******	
	ı	•	•			+	i	*	+	*********	*****	******
ARALAUTERBORNTELLA NIGROHALTERALIS	•	+	• 1	8 (	••	• •					•	*****
PARATENDIPES SUSAFERIALIS		• •	++		••	2	•	****	***	•	*******	• • • • • •
לריד של היה המחורה היה היה היה היה היה היה היה היה היה ה		+	*	;	•	• 1	•	+	************	*******	****	*****
CLYPEDILLM SPP	• 1	++	• •	Ë	• •	• •			***	-	Ţ.	•
	12	• •	•	•	• •	•	٠	*****	*****	****!	******	
+	; ;		<b>+</b> •		•	+ + •	•	******	*****	*******		******
HECTANYTARSUS SP	<b>3</b> 1	6'	• •	<b>;</b> '	• •	*	•		******	-	***	
MUDACATA DESIGNATION +		•	•	•		**	•	*******	•	*****	•	+
		• 1	••	•	• •	•		******	****	*****	•	
MENOCHIA MONOS BP		•	•	•	•	+	•	<b>****</b>				
••		• •	•		• •	•		• •	• •	**	••	• •
		++	**		••	• •		•		•		+
EXAGENIA BP		•	+ (		+ 1	++	• •	•••••			• •	+
STEROGRAP SP		••	• • • •	**	•	•	=	******			4	
			••		**	**		• • •	• • •	• • •	• • •	• •
TRICOPTERA		+4	++		••	++		••			+ + -	•
	•	•	*	'n	•	+ 1	•					
POTANVIA PLAVA	<b>.</b>	ñ ++	+ + N	Ë	• •	• • •	)		•	-	++	••
HIBCELLANEOUS INSECTA +		•••	+ + 4		• • •	•••		•••	•••	•••	**	++
	١	•	• •	•	• •	•	•	******	******	*******	٠	•
ENATOROGONIDAE (NO LARVAL MEV)	1 1	•	•	•	•	+	•	*****	****			
	•	•	•	ŧ	•	+ ·	•	****			•	+
		• •	• •	٠	••	•	1	******			-	*****
	•	•	+	2	•	•	•	•••••	•••••	•		
		4	•		•	•		•	•	•		

TABLE J-8f (cont.)

TAMBAGATE CLASSIFICATIEN					NUMBER	OF DRE	NUMBER OF CREAMISMS AT STATISTS	ATIONS			
	1	•	•	· k		•		•	•		
MISCELLANGOUS INVERTEBRATES		• . • . • . • . • . • .		• • • • • •				••••	• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •
NEMATODA		1	****	1	*	1	******	# # # # #	*	***	*
TOTAL NUMBER OF CROANISMS	11.7	923	*****	3304	1907	96	1178 + 1209 + 1907 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 2009 + 200				

TABLE J-9a

LAKE SEMIMOLE WG MANAGEMENT STUDY - DENTHIC MACAGINVERTEGRATES (ORGANISMS/80 M)
COMPS OF ENGINEERS (CONTRACT DACMOI-78-C-0101) PYASE 11, CYCLE S (8/13-16,1979)
0+0 PASS TWO - CODED DATA USEO.

											+++++++++++++++++++++++++++++++++++++	
TAXOMOMIC CLASSIFICATION	•••		•		NUMBER	b	DREANISMS AT	15 AT SI	STATION:			•••
	ŭ	=	٠		26	•	- #2	2	36	#F +	+ 16 + 10 + 10 + 26 + 20 + 26 + 20 + 21 + 46 +	¥
			••••									
TUMBELLARIA TUMBELLARIA B	12	<b>'</b>	•••••	***** ' <u>N</u>	'?	•••••	'3	• •	' <b>å</b> .	185	•••••	, š
**************************************			•••••	•••••		•••••	•	•		•		
	•	•	****	•••••	•	****	1	•				1
A40E, 10A-0L 1 @CHAETA			• • • •			• • • •	• • • •					
MAIDIDAE HAIDIDAE	ĥ	•	••••	,	•	****	· · · · · · · · · · · · · · · · · · ·	ħ				1
TUBIFICIONE TUBIFICIONE	,		****	1	!	••••	1	•				,
HISCELLANGOUS - BUCHTANGOUS	1		••••	•	•		1	•				ı
				***	•	•	•	•••••				

TABLE J-9a (cont.)

	•••••	•••	***	•••			\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$			40000000000000000000000000000000000000
TAKOMOMIC CLASSIFICATION				NIMBER OF		ORGANISMS AT STATION:	71 ON:			• • •
	,	•		25	* #2	27	+ 1E + 1N + 1N + 2E + 2N + 2A + 3E + 3N + 3A + 9E	, N.	***	y
MULICOSCA CASTROPODA					•••		***	••••		••••
COROLICIA MANIENS	ħ!!	211	<b>h''</b>	<b>h</b> !!	<b>h</b> ''		211	111	111	<b>3</b> ''
BIVALVIA CUBERA CUBERSIS * SEVERA CUBERSIS	. 11	11	11	21	11	11	11	11.	11	11
				4			****		**********	******
ARTHROPODA-CRUSTACEA			-		• • • • •					
HVALELLA AZTECA		••••	•••••	•••••		•		1	•	1
AATMOPODA-INBECTA			•		•					
CMIRONOWIONE  * MELABESMYIA CINCYINES  * MELA CMERNOWILL ORBICUS  * CMIRONOMUS SP	111	121	121		121	12	111	l h	111	111
+ CLADOTANYTARSUS SP + CORLOTANYDUS SP + CORYNOME URA SP	••••	111	••••	••••	111	111	111			
1	••••	111	111			111	111	111	111	111
	•	1		:	i			i		

TABLE J-9a (cont.)

ENTERON MONOCHED SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND SEPTIONS AND S		;		MUTUER DF ORGANS	UNCAMINAS AT STATIONS				
		-	+ 2€	28	*		***		•
PARACHIRONGMUS MONOCHADMUS POLYPROILUM NALTERALE POLYPROILUM SP PROCLADIUS SP PROCLADIUS SP PROCLADIUS SP									
POLYMEDILUM MALTERALE POLYMEDILUM SOP PROCLADIUS SP PROCLADIUS SP PROCLADIUS SP PROCLADIUS SP	•	11			1 1	• •	••	••	••
PHENOTALY TARBUTANT AND AND AND AND AND AND AND AND AND AND	21	•••	1.1	11	•••	•••	•••	'n'	
STICTOCHIRONOMUS DEVINCTUS		' '2'	• • • • •	' ' ' ' ' '		• • • •	· 12	••••	••••
TANYTARBUS STELLATUS TANYTARBUS SP HENDCHIRONOLUS SP	* * * * * * * * * * * * * * * * * * *		!					••••	
+ ARRITORDEDICA	•••	•••	•••	•••		•••	•••	•••	•••
MEXAGENIA SP + + + TRICORYTHODES ALGILINGATUS + + -	•••	•••		11		•••		•••	
TRICOPTERA	•••	•••	•••	• • •		• • •	•••	•••	•••
NEURECLPISIS SP CECETIS  ••••		111	••••	111		111	••••		
MISCELLANEDUS +	•	•••	• • •						•••
CERATOPOGONIDAE (NO LARVAL REV) + CHADODONUS SP + CHADODONUS SP + CHADONUS	••••	111	'2'	111	111	111			
COMPAUS SP + + + + + + + + + + + + + + + + + +	••••	11	11	11	11	11	11		
MISCELLANE GUS INVERTERATES									
MENA700A	••••		,	1	1	,	1		1

TABLE J-9b

LAKE BEWINDLE WG MANAGEMENT BTUDY - BENTMIC MACROINVENTEBRATES (GRGANISMS/SG M) Corps of engineers (Contract Dacwoi-78-C-0101) Phase II. Cycle 8 (A/13-16-16-1679)

*** PASS TWO - COORD DATA USED

TAKONOMIC CLASSIPICATION	•••			NUMBER	NUMBER OF GROANISES	INS AT STATIONS	17 10M:			
	7		*	100					J.	ž
PLATYHELM INTHES-TURGELLARIA										
TURBELLARIA Turbellaria s	12	'\$	1 8	19	19	<b>'</b> h	12	11		
ANNEL IDA-WIRUDI NEA				•						
HIRUDINEA	· · · · · · · · · · · · · · · · · · ·	1	,	,	•	•	1	•	1	1
ANNEL IDA-OL I GOCHAETA		•	•							
NAIDIDAE NAIDIDAE			•,	2		<b>:</b>	•	3	•	
TUBIFICIONE			•	1	,	•	1	%		
MISCELLANGOUS ENCHTRAEIDAE NEW GENUS	•	•	í	1		1	•	•		2
**************************************										
CORBICULA MANILENSIS CORBICULA MANILENSIS CONTODASIS SP	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	211	211	<u></u>	2''	<b>21</b> ?	2''	<b>h</b> ''	2''	2''

TABLE J-9b (cont.)

TARONOMIC CLASSIFICATION				MUNDER	OF DRGANISMS	¥	STAT 10M:			
		•	%	M.	3	3	:	•	+ 7E	Į.
	::									
EUREA CUARISIS SPHACRIUM SA	11	11		11	••••	••••	11		11	•
ANTWROMODA-CRUSTACEA										
WFALELA AZTECA	1	,	•	ı	,		(	1	1	
ARTHROGODA-INSECTA										
CMIRONDAIDAE		•••		•••	•	•		•••	•••	
ABLABESAVIA CINCTIPES NFAR CHERNOVSKIIA ORBIGUS CHIRONORUS SP	' <u>'</u>	121	121	111	1 9	111	11	11	g i	
CLADOTANYTARSUS SO COELOTANYDUS SP CORYNOVE URA SP	111	111	11			1 11	111	1 12	1 12	• ••
"CRYPTOCHIRONOMUS" CP ROLL! CRYPTOCHIRONOMUS FULVUS DICAGTENOIPES LOSUS	111		111		<u>.</u>	<b>,</b>	1 11	1 11	• • • •	. '2
EINFELDIA MATCHITOCHEA EPOICOCLADIUS SP PARACHIRONORUS MONOCHRORUS	111		111		1 11		1 11	1 11		٠.,
POLYPEDILUM MALTERALE POLYPEDILUM SPP PHOCLAOIUS SP	<u></u>			911	21	*	21		• • • • •	1 21
PHEDTANYTARSUS SP ROBACKIA DERIJERA STICTOCHIKONOWUS DEVINCTUS	121	191	131	121			1 2			1 11
TANYOUS STELLATUS TANY TARGES SA RENOCHIMOMOLUS SA	,,,	111	11	11	• • •					)
		••		••.	•	•	•	1	••	•

TABLE J-9b (cont.)

	•				5	ORGANISMS AT STATION:				
	÷	:	*	*	•	•	:	*	. 76	ž
			<b>:</b>			\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$				
MERASEMIA SP TRICORYTHODES ALBILINEATUS	11	11				11	11	11	; ·	11
TRICOPTERA + + NEUMECLIPISIS SP + + DECETIS SP + + POTAWY IA FLAVA + + + + + + + + + + + + + + + + + +	111	111	111		111	111	111	111	111	111
MISCELLANEOUS CHANDDUCONIONE (NO LARVAL KEY) CHAOHORUS SP GOMBHUS SP STENELHIS SP	111-11	111 11	121 11		111 11	111 11	111 11	111 11	111 11	111 11
MISCELLANEOUS INVERTEGRATES		1			1	1	-	1	,	
++++++++++++++++++++++++++++++++++++++	n 5		* * * * * * * * * * * * * * * * * * *	\$ 502 \$ 502 \$ 502 \$ 503	2 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	• • • • • • • • • • • • • • • • • • •	2		<b>9 9 9 9 9 9 9 9 9 9</b>	8 2 2

TABLE J-9c

LAKE SEMINOL! WS MANAGEMENT STUDY + DENTHIC MACROINVERTEGRATES (ORCANISMS/SO M)
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE 11. CYCLE S (8/13-16-1979)
e-e- PASS TWO - CODED DATA USED

**************************************		* * * * *	•	•	• • • • •					
+ TAKONOMIC CLASSIFICATION				NOMORON	OF CRCANISMS	4	STATION:			
	ř	36	T.		¥0	u6 +	) •	¥ 104	+ 108 +	<b>201</b>
				>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>						
PLATVHELMINTHT S-TURBELLARIA			••••		••••				••••	
TURBELLARIA TURUELLARIA TURUELLARIA B	11	11		: 1		****		11	11	11
	•	• • • • • • • • • • • • • • • • • • •	•••••	• • • •		•	• • • • • • • •	• • • • •	• • • • • • • • • • • • • • • • • • •	
* MIRUDINEA	'			••••		••••		• • • • •	• • • • •	•
AUNELIDA-DLIGOCHAETA	•	• • • •	•	**************************************	••••	* * * * * * * * * * * * * * * * * * *		* • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	
MAIDIDA	•••	•••	•••	•••	•••	•••	***	•••	•••	
+ NAIDIDAE		1	•		•	•		1	1	•
TUBIFICIOAT  TUBIFICIOAE	2	2	••••	* * * * * * * * * * * * * * * * * * *		•				151
WISCELLANEDUS - ENCHYTHAELDAE NEW GENUS	•								, , , , , , ,	1
	*******	74444444	******		*******	4444444	*******	*******	*****	*******

TABLE J-9c (cont.)

TARDYDELC CLASSIFICATION	•••			NUMBER	NUMBER OF DREANISMS	SWS AT ST	AT STATIONS			
	?	36.	<b>1</b>	*	7	•	<b>&gt;</b>	¥01	EC 1 •	901
	· • • • • • • • • • • • • • • • • • • •									
M-JLL'3SCA	•••	•••		•••	•••	***	***	***	***	•••
SASTRUNGDA	•	•			• • •	•••		**	•••	•••
COMBICULA MANILANSIS CONTOUASIS SP VIVEARUS SP	211	g' '	<u>.</u>	21:	2' ·		m' 1	g' 1	211	<u>:</u> ''
BIVALVIA	•	•••		•••	44	**	•••	***	•••	•••
SPINATRIUM GO	11	21	• • • • • • • • • • • • • • • • • • • •		, ,		11			10
ARTHROWD DA-CRUSTACEA						•		•	•	•
HYALZILA AZTFCA	1	1	•						•	••••
ARTHROPODA-INSECTA	•••			•••	• • •	•••	•••	•••	•••	•••
CHIRONOMIDAR	• • •	•••		•••	•••	•••	•••	• • •	•••	•••
ABLAMESHVIA CINCTIPES NEAA CHEMNOVSKIIA ORBICUS CHIPDNOMUS SP		911	911	111	<u>.</u>	m' 1	••••		h	h11
CLADDIANVIASUS SP CUELDIANVIUS SA CCRVIONCURA SP	111	111	111		161	181	121	111	171	121
#CRYPTOCHIRONOWS" OF MOLLI CRYPTOCHINOMORUS FULVUS DICH TTENDIPES LOGUS	121	111	111	ımı	111	111	111	111		
PEDICOLNO CASA AND CHEA			1 1 1				• • •	• • •	•••	• • •

TABLE J-9c (cont.)

+ ************************************			•		NUMBER OF	CF DRGAN	DRGANISMS AT STATION:	TATION:			
	2			ž.	\$ £		£5	<b>¥</b>	+ 10A	+ 104	04 + 10C
				* * * * * * * * * * * * * * * * * * *							
FOLYDEOTIUM MALTERALS BOLVE, D31-134 403	11	• • •	• • •		'n'	•••	•••		• • •	• • •	
PROCLADIUS SP	•		• • •	2	•		•••	•	•	•	•
RHEOTANYTAGSUS SD	•		•	•	•		•	•	•	•	• •
ROBACKIA DEMIJEMA STICTOCHINOMOMUS DEVINCTUS			• • •	• •	11	•••	i 1	•••	•••	• • •	•••
	11		•••	11	• • •	•••	•••		•••	i 1	
A NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I NOCH I	60	1 	• • •	•	֓֞֞֞֝֟֝֟֝֟֝֟֝֟֝֟֟	•	! + + •	•	• • •	• • •	• • •
EPHENENDPTERA +		• • •	• • •		•••		•••	•••	• • •	•••	•••
MEXAGENIA SI- TRICORYTHODES ALBILINEATUS	• •	<b>6</b>	• • •	91	ķ'	506	ī'	g ·	21	'n'	<b>%</b> '
TRICODTERA			• • •			• • • •	• • •	• • •	• • •	• • •	• • •
NEUNECLIPISIS SP +	21	11	• • • •	11	• • •	• • •	11	11	• • • •	•••	11
P.JTANVIA FLAVA	•		<b>* *</b>	ı	1	••	••	••	•	<u>.</u>	••
4 SCUTTANEOUS		• • •			•••	•••	•••	• • •	•••	•••	•••
CERATOPOGOMIDAE (NO LARVAL KEY) + CMAGNORUS SP	' 1	11	• • •	• •		•••	•••	11	141	•••	12
FAPIDIDAE (NO LARVAL KEV)	•		••	1	1		•		••	•••	
GOMPHUS 3P + STENSEMIS SP	11	• •	***	ķ i	11		11	11	•••	•••	11
	•		•••	•			•	•	•••	•	
WELL CHANGE AND ALCOHOL	•••		•••	•••		•••	•••	•••	•••	•••	•••
			•••			**	•••	•••	•••	•••	•••
NFH 47004	1	'	• • •	•	1	• • •			•••		
•	•		• •			• •	•	•	•	•	•

TABLE J-9c (cont.)

TARONOWIC CLASSIFICATION  THE 31 + 34 + 34 + 34 + 44 + 64 + 104 + 106 + 105 + 106 + 106 + 105 + 106 + 106 + 105 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 + 106 +									::	::										
TOTAL NUMBER OF TAXA  NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA  TOTAL NUMBER OF TAXA	TAKONDAIC CLASSIFICATION	. • • •					2	DER C	7 286	AN 1S	45 AT	STAT	ï							• • • •
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TOTAL NUMBER OF TAXA										::*		::-	::			::-				***
NUMBER OF TAXA	TOTAL NUNDER OF DRGANISMS	00.	• • •	207	•••	523	• • •	108	n	++.	•	2	901	• • •	# F	+ + ·	ñ	• • •	į	**
	NUMBER OF TAXA	•	• • •	•	• • •	•	• • •	• • •		•		• • • N	•	• • •	••	• • •	-	•••	•	• • •
			•			***		***	***	***		•	***	•		•		•		•::

TABLE J-9d

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LAKE SENINGLE NO MANAGEMENT STUDY - VENTHIC MACROINVERTEGRATES (ORGANISMS/80 M)
CORPS OF ENGINEERS (CONTRACT DACWOI-70-C-0101) PHASE II. CYCLE S (8/13-16.1979)
0++ PASS TWO - COOFD DATA USED

TAXONOMIC CLASSIFICATION	• • •		•	NUMBER C	F DRGANI	NUMBER OF ORGANISHS AT STATION:	AT10N:				
	<b>4</b> 11	51	) 11C	126	121	+ 12v	٠ ١٦٨	+ 138	+ 130	•	
		••	•••			•••	• • • • • • • • • • • • • • • • • • •				
PLATYHELMINTHES-TURBELLARIA				••••		••••	••••	••••	••••	••••	
TURUELLARIA Turu:Llaria B	11	(1)		11	• •		• • • • •				• •
**************************************	• • • • • • • • • • • • • • • • • • •		* * * * * * * * * * * * * * * * * * *		•				•	••••	
HIRUSTNFA	•			••••					• • • •	• • • •	1
ANNEL IDA-DL I GOCHAETA	•		•					•		••••	
PATOTOAR Patotoar								••••	••••	• • • • •	•
TUBLE ICIDAS	1	1		2	2	2	<u></u>	999	•••••	•••••	٠
415CELLANFUUS ENCHTRAEIDAG NEW GFNUS						••••	••••	••••	••••	• • • • •	•

TABLE J-9d (cont.)

TATUMURIC CLASSIFICATION	••••			NUMBER OF CREAMISKS AT STATION:	OF CRGANS	CRGAMISMS AT STATION:	AT10N:				
	=	011	116	126	+ 1.2H	. 124	*:	- 13-	1 16	•	
					•••						*:`
#7LLUSCA	• 4 •	• • •	•••	***	••.	••		• • •	•••	• • •	
GASTROPHOA	•••	••		• • •	• • •	•••	• • •	• • •		•••	
CONDICT A ANNICTOR OF CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS IN CONTORNS	••••		<u> </u>	h''	211	**************************************	'n	2''	B++	101	****
עומערמני	•••	•••	•••	•••	•••	•••			• • • •	•••	• • • •
ちょうてきこうし すぎにしては、	•••		· •	•••	11	11	1 1	,,		11	
######################################								:			•••
WALELLA AZTECA	•		•••••		1	2	1	•			• • • • • • •
ATTMED DODE - INSECTA	**************************************		• • • •								•;•••
CMINONONIDAE			•••			•••	• • •			•••	++
ABLADESETIA CINCTIPES NEAR CHTRACVAKILA ORGINOS CHIRONORUS SP	111	111	,,,	••••	111	111	11	11	1 (	<u></u>	•,•••
CLADOTANYTAGUS SP COELOTANYDUS SP COELOTANYDUS SP CORVONEUR SP	' <b>2</b> '	'ħ'	' <u>?</u> '			12			• • • •	' '2	****
#CRYPTOCHIADWOMUS" OF MOLL! +	111	111	••••	111					' '2'		• • • •
EINFELDIA NATCHITOCHEA E-GICOCLADIUS SP PANACHIRONOSUS INDNIGHROMUS										. 211	• • • • •
							I				

TABLE J-9d (cont.)

	•••			NCHBE	ŏ	BCANI	NUMBER OF ORGANISMS AT STATION:	STATION	:				
•	- 110 + 110 + 110 + 120 + 12M + 12M + 110 + 110 + 110	011 •	110	126		181	121	•	• 44	134	110	•	146
POLYPEOILUM HALTERALE					•••	, ,	• • •	•••	•	11	•••	1	1
PHOCEAUTOS SP RHEJIANYTHROUS SP POUNCKIA DEAL LEGAL	1 11	1 11	• • • •	++++	***			****	2 11	11	••••	· · · · · ·	11 11
TANYDUS STELLATUS TANYTARSUS SO RENDCHIRDNOSUS SD			, <u>p</u> , ,	• • • • •	• • • • • ·	1		• • • • •	• • • • •	• • • •	••••	• • • • • • • • • •	1 111
EPMEWERDPTCO. MEMAGENIA SU TRICOUT MODES ALBILINEATUS	21	11		• • • • •	• • • • •		<u>.</u>	• • • • •	• • • • •	<b>9</b>	•••••	•••••	=
TYICOPTERA NEUMECLIPISIS SP UNECLIFISIS SP UNICTIS SP	111	r i h		•••••	• • • • • • •		•••	•••••	• • • • • •		• • • • • • •		• • •
MISCELLANTOUS CHEATOBUGHUDAE (NU LARVAL MEY) CHEATOBUGHUDAE (NU LARVAL MEY)	10		19	•••••	•••••	• •		•••••	i in	1 %	•••••		1 2
STENCILATS SP			• • • • • •	•••••	•••••			••••	1, 11	• • •	****		
MISCELLANGOUS INVERTESTATES		•	•		•••••	•		•••••	•		•••••	•••••	•
ME4a70DA	5	•		• • • • •	••••	•		• • • • •	• • • • •	•	••••	••••	•

TABLE J-9d (cont.)

	<b>4000000000000000000000000000000000000</b>	*****	•	****	******	• • • • •	•••••			****	:::::::::::::::::::::::::::::::::::::::		*****	••••	*****
TAKTHONIC CLASSIFICATION					NUMITER OF ORGANISMS AF STATION:	0	RCAN I	us ar	\$7A71	Ë					****
•••	314 + 115 + 115 + 123 + 124 + 124 + 134 + 131 + 135 + 146	110	•	٠	12.5	•	2 H 2	124	٠	:	-	•	1 10	•	•••
			::	:::	•••••		<b>:</b> ::								
TRUENTIGO AL CHENTRE VERCA	;		•••		9	•••	60	Ň	• • •		•••	***	6	•••	•••
WINDLE OF TAKE	6	•	***	•••	•	•••	r		•••	•	•••	•		•••	^
		•		***	•	•		•							

TABLE J-9e

LAKE SEMINGLE NO MANAGEMENT STUDY - DENTHIC MACADINVENTEDRATES (ORGANISMS/SO M)
COMPS JP ENGINEERS (CONTRACT DACADI-78-C-01011) PHASE II. CYCLE S (8/13-16-1970)
-++* PASS TWO - COUED DATA USED

**************************************	•••	•••	•••	**************************************		## ## ## ## ## ## ## ## ## ## ## ## ##	STAT! ON:	•••	*** *** *** *** *** *** *** *** *** **	• • • • • • • • • • • • • • • • • • •
		* **	154	5	150 +	100	101	3.0	174	24.1
PLATURE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURPET LARIE MINTRES - TURP			•					•		•
TURDELLARIA • TURBELLARIA B	11		,,		11	• •	1.0	<b>.</b>	11	11
ANICIDA-HI PUDINGA										
	1	,	•			•		•	,	
ANNFLIDA-DLISDCHAETA				••••	• • • •					
NAIDIDAE NAIDIDAE	ı	1			1	•	1	1	,	
TUBIFICIDAE	ı	1	<b>5</b>	1	<b>5</b>	<b>9</b>	=	2	ı	2
	•	ı	,		•	•	ĥ			
₩OLI.USCA										
GASTAGPODA CORFICCALA "ANTILENSIS GONIOTASIS SP VIVDAHUS SP	<b>P</b> C 1	923	<u>.</u>	• 1	<b>8</b> i i	96.	211	* · · ·	<b>! ! !</b>	5.1

TABLE J-9e (cont.)

TAKONUALC CLASSIFICATION	•••			NUNNER	OF DROAM	DRCANISMS AT STATIONS	ATIONE		OF DROAMISMS AT STATION!	
	-	441	+ 13A	• 134	130	. 105		•		2
SISPATO VERSON	11		••••	••••	••••	••••		• • • • •		11
ANTHHOMODA-CHUSTACE			• • • •							
HARELLA AZTECA	•	1			•	••••	•		1	•
	•									
AT THE MAN TO THE TAKE	• 4	• • •	• • •	••	••	••	• •	••	••	
C+1180NOW 13A E	• • •	•	• • •	• • •	• •	• • .	• •	••	••	
ABLAUESMY IA CINCTIPRO NEAR CHEREDOUGIIA ORDICOS CHIRDAOLOS AF	<b>E</b> 11	111	h	g' <u>c</u>	h i g		111	<u>.</u>		•••
CLADOTANYTARSUS SP COTLOTANYTUS SP CDAYNUNTURA SP	1 10 1	1 k 1	1 <b>6</b> 1	1 9 1	'À'		121	161	111	511
#CRYPTOCHIBONUAUS" OF ROLLI CRYPTOCHIRONOAUS FOLVUS DICROTEROIPES LOBUS	111		121	• • • • •			1 th 1	111	,,,	121
EINFELDIA NATCHITOCHEA EPOICOCLADIUS SP PARACHIRONDHUS HONDOMUNAS	111	• 1 <u>0</u>		121	• • • •		111	111	••••	
PRIVATEDILUM MALTERALE FOLVPEDILUM SOP PROCLADIUS SP	111	112	115	116	110		112			
RHEDTANYTABSUS SP ROBACKTA DF41JEWA STICTUCHIROVOMUS DEVINCTUS	111	•••				• • • •	111	111	111	,!!!
TANYOUS STELLATUS LANYTANSUS SB RENJOHINGHOUS SB	111	121		••••	• • • •		111			•••
			!	-						

TABLE J-9e (cont.)

TALOMOTOR CLASSIFICATION	• • •			NUMBER OF DRIANISES AT STATION:	OF DRSANISES	SWS AT ST	STATION:			
	•	•	• 15A	• 154	• 15c	• 16€	701	•		2.
E PME AT A TOPTERA TOPTERA TOPTERA SPANNING SPANNING SPANNING STANNING STAN		<b>8</b> 1	۰ ۲		Ę,		ħ'	11		21
44114001144	•••		***	•••		•••	••••		• • • •	
+ + + UAECLIFISS SP CRECTISS P + + PURACLIFISS P + + + + + + + + + + + + + + + + + +		2:1	,,,	111		111	112	111	111	
MISCELLANE OUS	•••			• • •			•••			
+ CFRATOPOGOMIDAE ING LARVAL KIV) + CHATJORUS SI • EMPIDIDAE (NG LARVAL KEV)	121	121	, 2, 5 6	101	1 <b>%</b> 1	111	221	121	111	•••
GOMPHUS SP + STEMELMIS SP		11	,,	11	11	11	11	• •	11	
MISCFLLANEOUS INVENTEDRATES	•	•					• •	• • • • • • • • • • • • • • • • • • •		
	1	1	• • • • •		•	•	ı	1	,	
TOTAL MUASCA OF TREAMINAS	12 09 09 09 09 09 09 09 09 09 09 09 09 09	7 = 2 =	r 6	-		~ ~	: -	2 .	• •	2
		•••		***************************************						

TABLE J-9e (cont.)

TAKO-GAIC CLASSIFICATION:  1 and 1 1AW + 15A + 15A + 16C + 16E + 16W + 16H + 17W + 17W  1 to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the							•		•	•								
	TAKONGAIC CLASSIFICATION	•••					NUMBER	3	2 4 2	2 4 5	AT 574	100						
			-	;	134	٠	10	٠	190	•	96	2	•	•	•	7	•	2
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	ANAT PO SPESSE	•	••	F.		**		••	N	••	6		••		••	•	••	•
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TARIF J-9F

LAKE SEMINOLE WO MANAGEMENT STUDY - BENTMIC MACROINVERTEBRATES (ORGANISMS/SQ M)
CORPS OF ENGINEERS (CCNTRACT DACWOI-78-C-0101) PHASE II. CYCLE S (8/13-16-1970)
6+6 PASS TWO - CODEO DATA USED

TATONOMIC CLASSIFICATION	•••			NUMBER OF	OF ORGANT	ORGANISMS AT STATION:	AT 10N:			
		W01 +	NG1 +	101	H61 +	#61 ·				
PLATYHILM INTHIN-TURRELLARIA		•	•	•						
TURNILLARIA TURNILLARIA S	•	2302	0963	F011	£'	Ē'				
ANNICHE PALICACE AND CONTRACT OF THE PARICACE			**************************************	• • •	•	• • • • • • •				• • • • •
		•	•		2	ı				
APINEL 104-3L163CHAETA				• • • •		•••	• • • •		•••	
NAIDIDAE Naididae			6 7		1 701					
TUBIFICIDAE	•••••	,		n 0	ĥ	2				
41SCFLLANFOUS ENCHTTRAFIDAE NEW GENUS	1	1	1			ı				
VUSDIII:										
GASTRUPODA CORULCULA 4ANILENSIS GONIDIASIS SP	<u>-</u>	50 I	<b>6</b> 11	n::	24 52	911		•••	•••	
	::		!			:				

TABLE J-9f (cont.)

TACHUMIC CLASSIFICATION	• • •			NUMBER	ò	ORGANISMS AT	T STATIONS	 V			
	10 -	7	194	101	. 194	•	•	•	:		
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00000000000000000000000000000000000000				4	•••	• • •	•••	***		***	***
SPEASTALON SP		••				• • • •	<b>!!</b>				
**************************************				• • • •	• • • • • • • • • • • •	•••••	•	· · · · · · · · · · · · · · · · · · ·		••••	• • • • • • • • •
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BACIFORC. 13	•••			•••	•••	••	**	••			•••
ARLANGSWYI TOCC NEAM CHYRN' IA DRUICUS CHIRONOMUS	111		111		••••	••••	111				
CLADGTANYTARSUS SP CUELGTANYJUS SP CCRYNOMFURA SP			• • • •		110	••••					
"CHYPTOCHIQUNDAUS" OF ROLL! CHYPTOCHIGONAUS FOLVUS DICROTENDIPES LOBUS	111	•••		• • • • •	• • • •	• • • •					
EINFELDIA VATCHITOCHEA Epoloucladius sp Parachirong 403 monocheomus					• • • •	••••	•				
BOLYBYN LUM MALTEMALE Jolybeidilum Sip Procing is	' <u>'</u>	(g)	781		••••	••••					
RMEDTANYTARSUS SP Buback ia Dévillia Stictocmiladyoqus drvinctus	111	211	<u></u>	• • • • •	****	••••		:::			
TANYBUS STRELATUS TANYTANGUS SA RENOCHIROLAGO SO			• • • • •	••••	• • • •	••••	.:::.				
			!		•	•	•			•	•

TABLE J-9f (cont.)

TAKONOMIC CLASSIFICATION	CACITATE A SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF THE SECTION OF	•	•	NUMBER	OF CRGANT	OF CREAKISMS AT STATION:	A7 1 0N:		
		101	134	361	761	#01			
42UFACAUFUTAU	• • • • • • • • • • • • • • • • • • •				•				
+ HEXAGENIA SO + TRICORYTHODES ALBILINEATUS	· · · ·	' p	580	11	16	11			
+ TRICODIERA	•••	•••		•••			•••	 	•••
+ YEURECLIPISIS SP + DCCTIS SP + DUTANTIA FLAVA	115	2000	1383	111	191	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '			
+ MISCELLANEDUS	•••					**		 •••	•••
+ CFARTOPOGONIDAE (NO LARVAL KEY) + CHADORUS SP + EMPIDIDAE (NO LARVAL KEY)	121	111	1 6	121	,,,	111			
+ 574PAUS 5P	1 1 • • • • • ÷	11	• •	11	11	11			
MISCELLANFRIS INVERTEIRATES		*******			•				•
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			>	r	-				

TABLE J-10a

LAKE SEMINILE WO MANACEMENT STUDY - BENTHIC MACROITIVERTEDRATES (DRGANISHS/SO M)
CARPS OF ENGINEERS (CONTRAC) DACWDI-78-C-0101) PHASE II. CYCLE 7 (10/3-7/1979)
*** PASS TWI) - CODED DATA USED

TAXONOMIC CLASSIFICATION	T + +		MON	NUMBER OF JR	GANISMS A	JRGANISMS AT STATION				
	Ξ	3	٠ الأ	<b>ઢ</b>	₩ +++	E	# #	# #	£	
PLATVIELMINTHES-TURBELLARIA+	* * * * * * * * * * * * * * * * * * *	**************************************	**************************************	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	**************************************	* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
TURBELLANIA TURBELLANIA B	~ ·	1607	11	11	+++++	1028	11	10	748	. 199B
ANNEL (DA-HIRUDINEA	• • • • • • •	• • • • • •				• • • • •				*****
HIRUDINEA		1	,	1	1	1	1	ı		****
A:UNEL!DA-OL!GOCHAETA	• • • • • • • • • • • • • • • • • • •	• · · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·		• • • •					• • • •
NAIDIDAE			1			++++	1	<u>c</u>		
TUBIFICIONE TUBIFICIONE			r R			++++	1			
MISCELLANEOUS ENCHYTRA:IDAE NEW GENUS LUMBRICU.IDAE		11	( (	11			11	<u>g</u> 1		

TABLE J-10a (cont.)

TAXDUSTIC CLASSIFICATION	•••			10 47CB OF	0F 08641540	7	\$147 1:343			
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	Ξ	2			H	*			:	•
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MOLLUSCA	- • • •	++++	••••				•••			
+ CORBICULA MAJILENSIS	••••	* + + +	4	<u>.</u>		3	n S	N M	<u>.</u>	99 99
01VA_VIA	••••	***					••••			
	+++	+++								· ;
ARTHROPODA-CRUSTACEA	•	•			•	• • • • • • • • • • • • • • • • • • •				•
+ ASELLUS 17P + HYALELLA AZTECA	****	i i	11	1 '	11	11	11	11	11	
**************************************	*****						* * * * * * * * * * * * * * * * * * *			
		•••	• • • •				• • • •	• • • •		
+ ABLABESHYIA ANNU.ATA + NEAR CHENDOSKIIA DRHICUS + CHIRONOMES SP	••••	111	111	111	11.	,,,	'A'	111	101	
+ COELOTANYPUS SP + CAICOTOPUS SP + CRYPTOCHISONOMUS FULVUS	****	++++	••••	111	111	,,,	111	111	111	
+ CRYPTOCLADOPELMA SP + EINFELDIA MATCHITOCHLA + GLYPTOTENDIPES SP	1 1 2	111	111	111	111	111	111	111	111	
+ POLYPEDILUM HALTERALE + PROCLADIUS SP + PSEUDOCHIRONOMUS EP	* * * *	111	111			111	111	111	111	
						` 		!		

TABLE J-10a (cont.)

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TAKOJONIC CI NSTIFICATION					FRJ 471C R		OF DRGAVISAS		11 STATE-14					***
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	•	•••••••	:	•				•		::	*******			::
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	• •	+ 4	+ +		+ 4	+ +	• •		• •	٠.	+ +	2 +		•
+ BATTOTOTISTEROROUS DEVINCTOR	• •	٠.) .		. 1	• • •	+ +	•	+ 4	+ 1	+ +	1		* *
	• •	. + +	+ + 1	ı	l + +	+	+	•		•	•	1 1		• 1
+ KENDCHIR NOHOS SP + UNIDENTIFIED TANYPOOLNAE	••	++	++-	11	++-	+ + +	+++	t 1	•••	• • •	• • • 	11		• • •
++++		+++	+++		• • •	• • • •	***				***			+++
+ CAENIS SP	i + + :	++-	• • •	1 1	• • •	+ + 4	1 1	• •	11	• • •	11	11	11	* *
+ CLORON SP			+ + + : 1	1	• • •	++	1	ı	1	++	++	•		* *
+ STENDARM SP	' • • •	. + +	++	1	++	++	++-		+++	++-	+ + + 1	1	•	+ + •
TRICOPTENA	***	+ + +	+++		+++	+ + +	* * *		• • •	+++	+++			++
CHEUNATORS/CHE SP DECETTS SP 000	111	. + + +		111	111	***	• • •	111		***	•••	111		* + * •
PHYLOCENING	.++	++	**		**	++-	++•			+,++	++4			• • •
	++	++	+ +		**	+ +	+ +		• • •	• • •	• • •			+ 4
+ CERATOPOGONIDAE (NO LARVAL KEY)	111	++4	• • •	• • •	+++	+ + +	+.+ + 	111	• • •	• • •	• • •	1 1 1		+++
	•	. + 4	++	ı	. + 4	* *	++	1	++	**	++	•	•	+ +
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MEMATODA	• • • • •		11	• •		***	11	1 1		****	****	,,	• • • •	****
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TABLE J-10a (cont.)

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TAKPULATE CLASSIFICATION					J. 7 (11	č	ושטשו	ئ چي	HINNER OF ORGANISMS AT STATEMS	1.34:					
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	•		***		## ## ## ## ## ## ## ## ## ## ## ## ##										
+ TOTAL NUMBER OF DROANISHS	2	75 + 3158 + 262 + 187	.++.	262	13	.++.	37	. + + 1	1495 +	149	+++	449 +	861	+ + (953
NUMBER OF TAXA	n	(4	• + +	G		• • •	-		n n	••	* * *	* * *	*	· + •	N
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LAKE REMINALE WE MANAGEMENT STUDY - BENTHIC MACROLINVERTEBRATES (ORGANISHS/SG H) CONPS OF ENCINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 7 (10/3-7/1979)

TAXONOHIC CLASSIFICATION	-4-		¥	NUMBER OF O	ORGANISMS AT STATION	T STATION				
	5	5	3	+ + + 7	£	7	# ***	£	3	*
PLATVECHINATES	**	* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * *	**************************************		* * * * * * * * * * * * * * * * * * *		• • • • • • • • • • • • • • • • • • •	
TURBELLARIA D	11	11	167	•••••	•••••		11	11	11	*****
ANNEL I DA-H IRUDINEA	• · · · · · · · · · · · · · · · · · · ·	• • • • • •	<u>*</u> * * * * * * *	•	**********	* * * * *	• • • • • • • • • • • • • • • • • • •			
HIRUDINGA			• • • • •		• • • • •	++++	1	ı	1	
ANNEL IDA-DLICOCHAETA	• · · · · ·		· · · · ·		* * * * * * *	- * * * * • • • • • • • • • • • • • • • •				• • • •
NAIDIDAE NAIDIDAE	,	1	<u>.</u>	89 1	8		1	1		****
TUBIFICIONE.	346			‡	2,00		3	*	3	*****
HISCELLANEDUS ENCHYTRAFIDAE NEW GENUS LUMBRICU.IDAE	11	11	****			11	11	11	11	••••

TABLE J-10b (cont.)

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. TAROUNDE CLASSIFICATION	• • •			MUNICE IN	MONINER OF CHEALSAN AT		3171341 3171341			
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HOLLUSCA				• • • •	• • • •	• • •	•••			•••
CORSICULA MANILENSIS	6	306	P.	<u>.</u>	n	1	6	2		*
BIVALVIA • CUPERA CUBENSIS	••••	,	ı	1	ı	ı	ı	,		
ARTHROPODA-CRUSTACRA	***									* • • •
+ ABELLUS ST + WYALELLA AZTECA	11	11	11		11	11	11	11	11	11
**************************************				•		• • • •				• • • • • • • • • • •
CHIMONOMIDAE + ABLABESMYIA ANNULATA + NEAR CHEROUSBIITA GRATCUS - CHIMONOSALIYA GRATCUS	÷÷÷÷	181	121	3.5	,,,	111	1 : 6	<u> </u>	110	780 m
CONTOTANY-US SP CANCOTOTANY-US SP CANTOCITHONOPHUS FULVUS	118	111	111	W . V	′′ <u>°</u>	111	116	111	34.	<u>-</u> 11
+ CRYPTOCLADDREMA RP + EINFELDIA NATCHITACIEA + GLYPTOTENIIPES SP		111	111	111	1 % 1	111	115	111	111	111
PROLYPEDILUM HALTERALF PROCLADIUM BP FECUDOCIINONOMUS BP		' <u>*</u> '		ις:	111		111		191	' 5

TABLE J-10b (cont.)

	• • •				NUMBER OF ORGANISMS AT STATIONS	DF ONG	575174	AT 574	141041				
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				ii ii			::		· · · · · · · · · · · · · · · · · · ·				************
ROBACKIA DEMIJERA	' { • • •	37	••	++	•	••	++	1			* *	ı	•
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TRIBELOS SA	++	-+	••	• •	•	• •	++	•		• •) 4 ·)	!
XENDCHIRENOMUS SP UNIDENTIFIED TANYPODINAE	••	++	••	++	11		• • •			++ 224	• • •		
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STENOTEMA SP	•	t ++.	•••	++.	'	•••	++	* * • • • • • • • • • • • • • • • • • •	: '		++	y 1	; '
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		* * •	**	++		••	++	**		• • •	++)	
CIPARTY BOOKS ON AND AND CONTRACTOR	•	• • •	• •	• •		• •	++	* *		+ +	++		
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PODURA ACCATELA	111	•••	•••	* * *	111	•••	***	111	211	***	***	111	
				•••			**	**			• • • ')	
· -				****						• • • •	• • • •	<u> </u>	
ACARI NEHATODA	11	11	• • • • •		11		• • • • •	• • • • •	,,	••••	• • • • •	11	

TABLE J-10b (cont.)

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TAYONING CLASSIFICATION	•••				2	NUMBER OF ORGANISAS AT STATION:	ě	KCANI	S 4 S	12 57	71.04	••					
		3	٠	06 + 64 + 64 + 76 + 70 + 40 + 30 + 104 + 104 + 40	٠	7.	٠	ž	•	•	•	٠ س	7	,•	Ē	•	3
\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$::				::										
TOTAL MUNDER OF ORGANISMS	ZF.Z1 +	-4	448 +	449	+++	1962	**	416	++-	393		57.	.	\$05 + +	1065	* *	1383
NUMBER OF TAXA			* * *	'n	+++	9	• • •	4	• • •	a		***		+++	•	+ • •	^
**************************************	***		*	****	•	*	. + .	*		1				+ +		• •	

TABLE J-10c

LAKE SEMIMALE WG MANAGEMENT SIUDY - BENTHIC MACROINVERTEBRATES (DRGANISHS/SQ M)
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II, CYCLE 7 (10/3-7/1979)
*** PASS TWO - CODED DATA USED

-++-				3	MBER OF	ORCA	NISMS	NUMBER OF ORCANISMS AT STATION	2				
. *	\$	٧ * * * *	***	60	100	+++ m	100	÷ ÷ ÷ ÷	***	**	***	<u> </u>	£
PLATVHELMINTNES-TURBELLARIA-	* * * * * * * * * * * * * * * * * * *	*	;; ;;	: :	* * * * * * * * * * * * * * * * * * *	‡‡••••• !!	• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •	** ** ** ** ** **	••••••	* • • • • • • • • • • • • • • • • • • •	
TURBELLARIA 3	' 1		11	11	****	11	''	11	11	• • • • •	****	11	δ,
ANAMEL I DA -HI RUDINEA +			****		• • • • •	****			••••	• • • • •	• • • • •		
HIRUDINGA +	ı		• • • • •	1		++++	•	• • • • •	1 • • • • •	• • • • •		1	<u>b</u>
ANNELIDA-OLIGOCHAFTA +			****		• • • •	• • • •		••••	••••	••••	••••		
NAIDIDAL HAIDIDAL +	<u>.</u>		****	1	• • • •	• • • •	•	• • • • •		• • • • •	• • • • •	• • • • • I	
TUBIFICIDAE ++	131	617	*****	*		• • • • •	37			•••••	****	£	115
MISCELLANEOUS + ENCHYTRALIDAE NEW GENUS + LUMBRICUI IDAE +	11		11	1.1	*****	11	11		•••••	•••••	*****	11	,,,,,,

TABLE J-10c (cont.)

							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
TAKINIMIE CLAIMITINA	•••			NUMPER OF		CHIAMISHS AT STATICUE	AT 1041			
•••		ž	104		• 55		*		126	H2.
4				• • • • • • • • • • • • • • • • • • •			• • • • • • • • • • • • • • • • • • •		-	
+ HOLLUSCA + OASTROPODA										
+ CORDICULA MANILENGIS		243	ĥ	2. 5.	2	1	979	506	1	107
BIVALVIA + EUPERA CUMENSIS + +		1	'			t	,	1	ı	1
	******	•		• • • •						
+ ABELLUS DP + HVALELLA AZTECA +			11	11	11		11	10	374	11
ARTHROPODA-INSECTA	• • • • • • • •	• • • • • • • • • •	•	•	• • • • • • •	• • • • •		* * * *	• • • • •	
+ CMIRCHONE		• • •	• • •				• • •			• • •
+ ADLARESHYTA ANNULATA + NEAR CHENDOSKITA ORBIGUS + CHIRONOHUS SP	••••		116	112	112	116	••••	111		· · · · ·
+ COELOTANYPUS SP + CRYPTOTOTIS SP + CRYPTOTIS SP +		••••	• • • •	119	111	110	111	1 1 2	111	9 11
+ CRYPTOCLADOPELTA :p + EINFELDIA NATCHITOCH:A + GLYPTOTENS EP	••••			111		- 111		<u> </u>	10-1	
+ PDLYPEDILLUM HALTERALE + PROCLADIUS SP + PSEUDOCHIRONOMUS SP	****	111	111	191	.6	101	1 1 1	151	111	111

TABLE J-10c (cont.)

							•		•	•	•		•	:
* Tremmint CLASSIFICATIN				NC4	NUMBER OF	0AC441	ORGANISMS AT STATION:	STAT IU	••					•••
••••	8	Å	+ 104		104 +	201	114		-	- :		+ 3d1		• • •
	•••••		**	:::		::						•		::*
+ ROBACKIA DEMIJERA + STICTOCHIRGNONOS DEVINCTUS + TANYTARSUS SP			••••	• • • •	111	111	111	+++	111	161		111	•••	* * * *
+ TRIBELOS SP + XENOCHISHOUNG SP + UNIDENTIFIED TANYPODINAE	• • •	••••		••••	111	111	• • • • •	• • • •	111	111,		111	111	* * * * *
+ EPHETEROPYERA		•••	•••	• • •	+ + +			+++	+++		• • •	• • •		• • •
+ CAENIS SP + CLOBON SP + MEXAGENIA SP	118	• • • • •	119	¥ •••••	115	114	116		111	111	****	111	111	* * * *
+ BTENONEMA SP	i		1	• • •	++	1	1		1	•	++	• • •	•	+++
+ TRICOPTERA		•••		• • •	• • •		•••	•••	• • •		• + +	• • •		++
+ CHEURATORSYCHE SP + DECETES ::P + PHYLOGENIROPUS SP	•••	11.1	111	****	111	111		****	111	111	****	••••• • <u>•</u> •	111	* * * * *
+ MISCELLANEOUS INSECTA +	•	* * *	* * *	* * 	+ + 4		•••	+ + +	* + +		• • •	• • •		* * *
+ CERATOPOGUIDAE (NO LARVAL KEY) + CHADODAUS SP + DIDYMOPS IRANSVERSA	112			• • • •	111	111		•	111	111	****	151	111	****
+ PDDURA ANDATILA	. 1 1		++++	****	*****	111	••••	****	111		••••	121	111	****
######################################	• • • • •	- • • • • • • • •			•••••		<u>:</u> • • • • • • • • • •	• • • • •			•••			* * * * *.*
ACARI NEMATODA				•••••	•••••	"		••••••	10	11	•••••	11	11	· • • • • • • • • • • • • • • • • • • •

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TABLE J-10c (cont.)

TAKINIMIC CLA 151F ICAT (IN	•••					2	A)C	NUMMER OF ORGANISMS AT STATION:	. 1 M I S	.¥ S#1	25	701 15	<u></u>					
	g .	•	98 + 9C + 10A + 104 + 13C + 11A + 11H + 11C + 12F +	٠	101	•	F 0.1	<u>-</u>	×	-	•	-	=	-	٠	-	•	# Z I
		::			**	::	::					•						
TOTAL NUMBER OF ORGANISMS	544	+ + + •	847	• • •	203	+++	617		168	• • •	567	• • •	897 +		861 +	ň	266	077
NUMBER OF TAXA	• • ÷	r 10	(7	++	₹	++	•		'n		^		· · ·		• • •		• • •	'n
•	+	÷		+		+		+	•		•		•		•		٠	

TABLE J-10d

LAKE SEMINOLE NO PANAGEMENT STUDY - BENTHIC MACROINVERTEBRATES (ORGANISHS/SQ M)
CORPS OF ENCINEERS (CONTRACT DACMOI-78-C-0101) PHASE II. CYCLE 7 (10/3-7/1979)
*** PASS TWO - CODED DATA USED

TAXONOMIC CLAUBIFICATION				NUMBER	ER OF OR	ANISMS A	OF ORGANISMS AT STATION				• 1 • •
	<u> </u>	e e	***	138 ++	55	14E	<u>\$</u>	3	4. 4.	1.56	261
	* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	: : : : : : : • • • • • • • • • • • • •	- • • • • • • • • • • • • • • • • • • •	* * * * * * * * * * * * * * * * * * *	7 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • •
TURBELLANIA ++	<u>0</u> :		• • • • •	11	11	<u>P</u> 1	11	6 1	11	11	11
ANNEL COA-HIRUDINEA			•••••	• • • • • • • • • • • • • • • • • • •	• • • •	• • • • •	* * * * * * * * * * * * * * * * * * *	• • • • • • • • • • • • • • • • • • •	• • • • •		* * * * * * * * * * * * * * * * * * *
+ HRUDINES	,		* * * * *	• • • • • I	1				1	1	ı
*****:********************************		• • • • •	*	-		• · · · · · · · · · · · · · · · · · · ·		* * * * * * * * * * * * * * * * * * *		• • • • • • • • • • • • • • • • • •	• • • • •
NAIDIBAE NAIDIBAE		1	****	1		9		••••		1	*
TUBIFICIONE ++		1327	****	4611	1797		,		376	710	785
MISCELLANEOUS + ENCHYTRA:IDAE NEW CENUS + LUMBRICULIDAE -	11		*****	11	11		11	11	11	11	1 1
	***	•	*:	*:		•	*****		•	***	•

TABLE J-10d (cont.)

TAXONG41C CLASSIFICATION				MJHBER OF	F CRSA41	SECENTIONS AT STATE ONE	1 () LV	INCITATE TA SERIZACIAN FINALES		
••••			<u>F</u>	y .	• :	7	*	15A	15:1) ISC
4 CSN - 1 TSN		• - + + + + + + + + + + + + + + + + + +			- +	•	*			
CORBICULA MANILENSIS	115	1776	430	1776	ı	£	5	48	53	545
DIVALVIA + EUPERA CUBENSIS		1	1	1	!	ı	ı	1	1	<u>.</u>
ARTHROPODA-CRUSTACEA	*	• • • • • • • • • • • • • • • • • • •	**************************************			•	•	• • • • •		
+ ASELLUS SP + HYALELLA AZTECA +	1308	11	11	11	, ,	11	37	11	11	11
**************************************	-+++		• • •							
+ CHIRCNOMIDAE	**	-4.			• • •				• • •	
+ ABLABESHVIA ANNULATA + NEAR CHILINDOGKIIA DRHICUS + CHIRONOHUS SP	111	22.	118	116	7.57	<u></u>	<u></u>	111	111	111
+ COELCIANYPUS SP + CRICOTOFUS SP + CRYPTOCHIRONOMUS FULVUS	110	6'6	8 11	116	£18	111	\$. Ç	115	'n	37.
+ CRYPTOCI ANDPELMA SP + EINFELDIA MATCHITOCHEA + GLYPTOTENDIPES SP	1 <u>0</u> 1	111		111		111	181	+++	111	111
+ POLYFEJIIM MALTERALE + PROCLADIUS SP + PSEUDGCHTRONOMUS SP	+++ 36 19		37.	112		75	111			' & '

TABLE J-10d (cont.)

FAVORDATE CLASSIFICATION				N.JUNE P	UF TROAY	MUNINER OF DROADISES AT STATISME	AT 1:3ME					••••
) 				10 0	*	•	· 181	- 1 +	٠	28.4	• • • •
		••••••		• •			•••	***	::			:::
+ ROBACKIA DEMIJERA		++	••	+ +	• •	+ 4	•	•		٠		*
+ STICTOCHIRONOMUS DEVINCTUS	,	•	•	1	•	1 1			• •	• •		+ +
		6 7) + (•			1			+		+
+ TRIBELOS SP	•	1	1	,	1			• •	+ 4	++	•	٠,
+ XENCCHIRCHOMOS SP + CNIDENTICIED TANYPODINAM	• •	++	+ 1	4 1	1					• •	1 1	+ +
4 4	'	, . ÷	ı • •	ı • •	ı • +		ı	1 +,+	•	* *	ı	+ +
EPHENEROPTERA +		••	* *	* *	**	••		+ 4	. + 4	• • •		•
	•	• •	,	• •				. •	• •	+ +		+ +
+ CLORON DP + MEXAGENIA SP	•	1	1,	1 5	·			• •	++	+ +	11	* *
		8	3) · •	n 2	È	716 - 4	6°	ลั + +	++	•	+ +
	•	1	, • •	; ++	1	•	1	•		٠.	•	•
TRICOPTERA			••	.++	••			• • •	• • •	• • •		+ +
+ CHECHATOPSYCHE AP	1			•		. 4		• •		+ +		• •
	•	96	67	+		11		1 I	••	++	1 1	+ 1
	1		ı	1	 6	6.	1	+4		• • •	1	•
MISCELLANEDUS INSECTA +	. •		••	••	••					• • •		• • •
CERATOPOCOMIDAE (NO LARVAL KEY)	,	•	1	••		1				• • •	1	•
TOTAL TANK TO THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPERTY AND THE PROPE		<u>.</u> .		6'	• •	Ē,		<u>.</u>		• • •	111	
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* NECKOCORIXALA SP * PODURA AKKATILA +	<u>.</u>	•	11				2		• •	* *	11	+ +
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TABLE J-10d (cont.)

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TABLE J-10e

LAKE SEMINDLE WO MANAGEMENT STUDY - BENTHIC MACRDINVERTEBRATES (ORGANISHS/SO M)
CORPS OF ENGINEERS (CONTRACT DACWDI-78-C-0101) PHASE II. CYCLE 7 (10/3-7/1979)
*** PASS TWJ - CODED DATA USED

TAXONOMIC CLASSIFICATION				Ş	BER OF 0	ROANISMS	NUMBER OF ORGANISMS AT STATION		••		
	39E	¥	•••	16k	17E	***	***	 	E	<u></u>	19E
PLATVIELMINTHES-TURBELLARIA	**	** ** ** ** ** ** ** ** ** **					**************************************	** ** ** ** **	** ** ** ** **	** ** ** ** ** **	**
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TUBIFICIDAE	ģ			131	88	****	++++		••••		,,,,,,
HISCELLANEOUS ENCHYTRAFIDAE NEW GENUS	11	6'		11	16	3140	****		11	11	

TABLE J-10e (cont.)

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ARTHROPODA-INSECTA									• • • • • • • • • • • • • • • • • • •	* * * * * *
CHIRONOMIDAE		. 4 ÷		• • •					• • •	
+ ABLABEBYIA ANAULATA - NEAR CHINOVRIIA GRAIGUS - CHIRONORUS SP	••••	111	111		111	111	111	111	111	
COLCIANVPUS SP CETCOTOFUS SP CRYPTOCHIRONOPUS FULNUS		101	111	••••	111	111		111		
CRYPTOCLADOPELMA SP FINFELDIA NATCHITOCHEA CLYPTOTENDIPES SP	111	111	111	111	111	111	111	111	111	211
POLYPEDILUM HALTERALE PROCLADIUS BP PREUDOCHIRONORUS SP	2		181		1 1 1	1 0 1		, , ,		

TABLE J-10e (cont.)

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+ POBACE 1 ASS. 1880	•	++	+ +	•	+ +	1	6		ı • •	•	+	• •	1
+ STICTOCHIRONOMUS DEVINCTUS	•	+	+	1	+	+	•	96	+	+ 4	• •	• •	• •
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+ MENDCHIMINGHOR UP + UNIDENTIFIED TANYPODINAR			• • •		+ + +	• • •	14	• • •	•		1	• • •	1
* EPHENCHOPTERA		. + +	++-		• • •	++		. + + -	• • •	• • •	***	•••	•••
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* STENDNEMA SP	1 - 4 -		• • •	•	• • •	1	•	1	ı • • •			**	Ę
+ TAICOPTERA		++-	+++		++	* * *		•••	•••	•••	•••	• • •	* * *
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+ PIVICOENTACEUS SP	1	++	++	•	* *	++-	1	1	++-		+++	* * ·	
+ HISCELLANEOUS INDECTA		+++	* * 4		• • •	• • •		• • •	• • •	• • •		• • •	• • •
CERTOPOSONIDAE (NO LARVAL KEY)	<u>.</u> .			• •	• • •	11	75	.		••	••	**	10
+ DIDYHOPS TRANSVERSA	•	++	••	1	••	++ 1	•	1 ++	1 ++	••	••	• •	1
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+ Pobura Aluatila		*++	+++	•	***	+++		! ***	• • •	• • •	• • •	• • •	1
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+ HISCELLAMEDUS INVENTEBRATES		* + •	***		•••	* * *		•••	•••	•••	•••	•••	• • •
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TABLE J-10e (cont.)

FAKONOMIC CLASSIFICATION	•••			HJUNEH (MINTER OF URGANISHS AT STATISME	ars ar ar	ATIONS					
	106	16E + 164 +	168 + 17E + 174 + 175 + 19E + 184 + 188	3%	174	2	+ 136	٠	• •	1.5	•	196
			***	***					***		::	***
TOTAL NUMBER OF DROAN SMS	1402	+ 2729 +	767 +	523	7102	#1	3626	+ + •	1553 +	1289	+++	3962
NUMBER OF TAXA	.n ++	+ + ·	+ + 60	4	œ ·	•		+ + + m	4 + 4		4 +	Φ

TABLE J-10f

LAME SEMINOLE WE MANAGENENT STUDY - BENTHIC MACROIMVERTEBRATES (ORGANISHS/SD H)
CORPS OF ENGINEERS (CONTRACT DACHOI-78-C-0101) PHASE II, CYCLE 7 (10/3-7/1979)
*** PASS TWO - CODED DATA USED

TAXONOMIC CLASSIFICATION			-	NUMBER OF	ORGANISMS AT STATION	TA BE	STATION		••		
	<u> </u>	ž.	••• •••	•••	•••	***	**				
PLATYMELMINTHES-TURBELLARIA			• • • • • • • • • • • • • • • • • • •	**************************************		• • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • •		• • • • • • • • •	
TURBELLANIA TURBELLANIA D	0; I	3 1	*******	** ** ** ** ** **	***	******	***	**	**************************************	***	***
ANNELIDA-HIRUDINEA				**************************************	• • • • • • •	••••		* * * *	• • • • • • • • • • •	• • • • • •	· · · ·
HIRUDINEA	£	6			****	•••••					
ANNELIDA-DLIGOCHAETA			••••		• • • •	••••		• • • •			• • • •
NAIDIDAE NAIDIDAE	4		•	****				•	****		***
TUBIFICIONE	2	6	••••								
MISCELLANEOUS ENCHYTRACIDAE NEW GENUS LUMBRICULIDAE	11			***	*****			* . + ; • • •	*******	***	**************************************

TABLE J-10f (cont.)

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MOLLUSCA	• • • •		• • • •			•••		• • • •	• • • •	
GASTROPODA								•		***
CONDICULA MANILENSIS	+ 1/46 +	1406	•						***	• • •
DIVALVIA	• • •		• • •							****
+ FLUTERA CLUBERGIB	1	1	****							•
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+ ANTHROPODA-INSECTA				• •	•••	••		•••	• • •	
+ CHIRCHOM) DAE			••	••		• •		***	***	***
+ ABLABESHYIA ANNULATA + NEAR CHENNOVSKIIA ORPICUS			****	***					***	
+ CHIRONORUS UN		•	******					*******	***	
+ COFFICIANYFUS BP + COFFICIAN SP + COFFICIAN SP BP BP BP BP BP BP BP BP BP BP BP BP BP		11				***	***	*****		
+ CATTOCHIAGNOSIOS	++		******	********		•		******	****	******
+ CRYPTOLADOPELMA SP + EINFELDIA NATEMITOCHEA + GLYPTOTEMIPES SP		• •				****		**		
+ POLYPEDILIM HALTERALE			*****					***		
+ PROCLADIUS SP + PARUDOCHIRONOMUS SP	*				*****	****	*****	****		

TABLE J-10f (cont.)

+ Harrier Charles and American				MINULH OF	F DHGANIS45	7	STAFIONS			
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TABLE J-10f (cont.)

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TABLE J-11a

TAXONAMIC CLASSIFICATION	•••				ž	#0##	F ORGAN	NUMBER OF BRGANISMS AT STATION:	7 A T 1 ON:				
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WOLLUSCA	****		• • • • •	•								•	
GASTROPODA CORBICULA MANIL'ENSIS		• • • • •	• • • • •	•	• • • • •	• • • • • •	•	•••••	••••	• • • • •	• • • • •	• • • • • •	•
ANTHROPODA-CRUSTACEA		•	• • • • • •		•••••	•		•					
ASELLUS SP HTM.ELLA ATTECA			• • • • •	• •	••••	11	11	••••	••••	••••	••••	•••••	

TABLE J-11a (cont.)

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ARTHROPODA-INSECTA				::	****	• • • •				
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SWITTIA ATEMBINA "FFMOIDEDINI SP AM ROJACK 1953 TMIFNEWANNIELLA SJ	••••	•••		••••	••••	. N				• • • •
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TABLE J-11a (cont.)

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TABLE J-11b

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PLACED CYCLE I (2/19-22/1979) - RETRIEVED CYCLE 2 (4/2-4/1979)

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PLATYPELWINTHES-TURBFLLARIA		• • • • •	••••	••••		****	****	****	****	• • • •	••••
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GASTROPODA	•		• • •	• • •		• • •	• • •	• • •		• • •	
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TABLE J-11b (cont.)

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TABLE J-11b (cont.)

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TABLE J-12a

! BEMINGLE WE MONT STUDY - HESTER DENDY MACROINVERTESRATES (ORGANISHS/80 M)
PLACED CYCLE 3 (4/4-4/1979) - RETRIEVED CYCLE 4 (7/16-19/1979)
*** PASS TWO - CODED DATA USED

TAXONOHIC CLASSIFICATION			ž	MBER OF	DROANISME	NUMBER OF CROANISMS AT STATION	_			
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ARTHROPODA-CRUSTACEA HYALELLA AZTECA			1	••••	•••••	••••		••••	=	• • • • • • • •
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TABLE J-12a (cont.)

TANDHOMIC CLASSIFICATION				MUNUER C	MUYIIER UF ORGALISMS AT STATION:	INS AT ST	A7 (1014:			
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GLYPTOTENDIPES SP + CLYPTOTENDIPES SP + PARCHITENDINGS CARINATUS + POLYPEDILUH HALFERALE	111	110	111	111	101		•	111	8 11	111
POLYPEDILUM SPP + *********************************	=	<u>5</u> 01	202	4 41	<u></u>	1001	111	111	•••	
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EPHENEROPTERA					. 4 4 4	A A 4		•••	•••	***
CF CINYOMA SP CLOCON SP STENONEMA SP	112	8,4	111	111	111	111	111	111	101	••••
TRICORYTHODES ALBILINEATUS UNIDENTIFIED EPHENEROFTERA	8	R 1	۲'	£.	9 1		••••	11		••••
TRICOPTERA					**			•••	•••	•••
CYRNELLUS SP HYDROPSYCHE SP OECETIS SP	2 11	D 11	111	1601	* ' '	4 11	5''	8	111	6
POTANVIA FLAVA	2921	~ ~	6		82		•••		•	ı • • •
MISCELLANEOUS INSECTA ANCYRONYX SP ARGIA SP CORYDALUS SP	111	111	B :1	1011	111	111		101	••••	
DINEUTUS SP EMPIDIDAE (NO LARVAL MEY) FACRONYCMUS SP	111	111	121	121	191	111			••••	••••
TOTAL MUBER OF ORGANISHS NUMBER OF TAIA	3778	157 15	£ 01	8 -	1071	Ř	186	673	98.	627

TABLE J-12b

L BEMINDLE WO, MGMT STUDY - HESTER DENDY MACROINVERTEBRATES (GRGANISMS/SG M)
PLACED CYCLE 3 (6/4-6/1979) - RETRIEVED CYCLE 4 (7/16-19/1979)
*** PASS TWD - CODED DATA USED

TAXONDAIC CLASSIFICATION				3	NUMBER OF O	ORGANI SMS	AT STATION	_			
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ANNELIDA-CLICOCHAETA NAIDIDAE	ı	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	• • • • • • • •	3				• • • • • • •		• • • • • •	
ARTHROPODA-CRUSTACEA			••••••		••••••			• • • • • • •	•		
HYALELLA AZTECA	899			ı							
ARTHROPODA-INBECTA		* * * *	•				****				****
CHIRONOMIDAE ABLABESTVIA MALLOCHI ABLABESTVIA PARAJANTA CHIRONOMUS SP CRICOTOPUS SP	,,,,,,,,,	•••••	******	111 11	********	********			*******		********
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TABLE J-12b (cont.)

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PARACHIMONOPUS CARINATUS +		11	• • •					***	***	
+ + INTERIOR INTERIOR		140	4063	***			***	***	***	
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** TENDIPEDINI SP A" ROBACK 1483 + THIENERANN: ELLA XENA	11		' i			*****	****			
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TRICOPTERA			•••	•••	•			•••	***	•••
CVRNILLUS SP HYDROPSYCHE SP	11	£ '	1 1¢							
POTANYIA FLAVA	•	3 50	14603							
HIBCELLANEDUS INSECTA			•••	• • •	• • •		• • •	• • •	• • •	• • •
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CONTOALUS SP		127	•••	***						
DINECTUS SP ENDIDED DATE (ND LABOAL KRY)		37	•••	***	*****	******	***		::	
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TOTAL NUMBER OF DROANIESES NUMBER OF TAXA										

TABLE J-13a

••L SEMINCLE BD MIMT STUDY - MEITER DERCY MACRCINVERTERRATES (ORGANISMA/80 M)••
PLACED CYCLE S (B/13-16/1979) - RETRIEVED CYCLE C (9/24-26/1979)
••• PASS TAG - CODED DATA LEED

TAMONGNIC CLASSIFICATION	• • • •			S S S S S S S S S S S S S S S S S S S	NUMBER OF ORGANISMS AT	INS AT ST	STAT ION:	٠		
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ART FROM DA - CRUSTACEA	•		•						• • • • •	
PVALELLA AZTECA						1	,			,
ARTHOPOON - INSECTA	•	· · · · · · · · · · · · · · · · · · ·	• • • •	•						
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TABLE J-13a (cont.)

TARONOMIC CLASSIFICATION					NUMBER OF DREAMISHS AT STATIONS	0r 0n6	Ī	INS AT	4 1	101						
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+ *CL * PEDILUM * PALTERALE • PSECTACCLADIUS SP	2	•	• • •	•	1	••		20	+ + ~	•	••	1	٠.	•	• •	•
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			•	•	44444	•			•	4444	•		٠			•

TABLE J-13b

••L SEMINOLE NO MGMT \$1007 - MESTER DEREY PACKCINVESTEERATES (ORGANISMS/SO M)••
PLACED CYCLE \$ (9/13-16/1979) - RETRIEVED CYCLE & (9/24-26/1975)
••• PASS TND - COUED DATA LSED

	• • •			1010E	NUMBER OF ORGANISMS AT	SMS AT ST	STAT 10N:			
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		•		90						
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**************************************		•						•		
MVALELLA AZTECA		127		•						
PRTHROPODA-1NBECTA								• • • •	• • • •	• • • •
CHIEDNDHIDAE ABLABESHVÍA FAFAJANTA CHICCTODUS SP (BICINCTUS GROUP) CHICCTOPUS SF		111 2	111 1	111 1						

TABLE J-13b (cont.)

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	+ 56		95	32	•	,	•	•	*****	•••••	•	****
WICACPAFICTER SP	•	•	•	•	•			******				******
POLYPECILLE NEAR CONVICTOR	••	٠.	• •	2 8 C	• •	•		•••••	****	•	•	•
FOLYFEUILUM NEAR FALLAX	•	•	+	ı	• •	•	******	******	•••••	*****	****	******
POLYPEOILUS MALTERALE	•	•	•	Į	• •	•	*****	••••••	••••••		******	
ASECTACION OF	• •	•	• •	t	٠.	• •		•	•			
RPEDC-10010PUS MARACKI	•	• •	• •	•	•	,	••••••	••••••	******	******	•	•
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STENCHEMA SP THICORYTHODES ALBILINGATUS			11	57.1	• • •	1 9	***					
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AGNANEA SP PHYLCCENTADOS SP PHYLCTENTADOS	181		101	10284	•••	115						
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ALSCELLANGUOS INSECTA	• •	• .	•		• •	•		•	•	•	•	•
COBYDALUS SP LISCLLUA SP STENELHIS SP		••••	••••	811	••••							
	•			•		•	•					•
TOTAL NUMBER OF UFGANISHS	***		1262	11270	* * *	7555	•					
MUPEER OF TAXA	n +••	•••			•••	•••						

APPENDIX K CORBICULA TISSUE ANALYSIS RESULTS

LIST OF TABLES

TABLE	DESCRIPTION	PAGE NO.
K-1	Corbicula Tissue Analysis Results, Cycle 5, August 13-16, 1979	K-1

OF LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY OF CORPS OF ENGINEERS (CONTRACT DACTO1-78-C-3101) PHASE II.CYCLE 5 (8/13-8/16-1979)

TABLE K-1

PARAMETER NAME (UNITS)	STATEGN 19 8/14/79
PHYSICAL & CHEMICAL DATA	•
PHYSICAL DATA	•
MOISTURE CONTENT (% TOTAL MT)	82.2
HEAVY METALS	•
LEAD (NG PB/KG BET UT) MERCURY (NG NG/KG BET UT) SELENJUM (NG SE/KG BET UT)	10.30 0.219 0.43
ZINC (NG ZN/KG WET WT)	157.00
CHLORINATED HYDROCARRONS	
ALDRIN (UG/KG WET WT) BNC-ALPHA ISOMER (UG/KG WET WT) BNC-BETA ISOMER (UG/KG WET WT)	< 0.2 < 0.2
BHC-GAMMA ISOMER (UG/KG WET WT) CHLDROANE (UG/KG WET WT) P.P. DDD (UG/KG WET WT)	< 3.1 < 5.0 < 3.5
O.P. DOT (UG/KG WET WT) P.P. DOT (UG/KG WET WT) DIELORIN (UG/KG WET WT)	< 0.5 < 0.5 < 0.5
ENDOSULPAN SULFATE (UG/KG WET WT) MEPTACHLOR (UG/KG WET WT) MEPTACHLOR EPOXIDE (UG/KG WET WT)	< 5. < 0.2 < 0.2
METHOXYCHLOR (UG/KG WET WT) MIREX (UG/KG WET WT) PC3 (UG/KG WET WT)	< 5.0 < 5. < 25.
PENTACHLOROPHENDL (UG/KG WET WT) TOXAPHENE (UG/KG WET WT)	< 5.

APPENDIX L
SEDIMENT SAMPLING RESULTS

LIST OF TABLES

TABLE	DESCRIPTION	PAGE NO.
L-1 (a-e)	Sediment Sampling Results - Physical and Chemical Data, Cycle 5, August 13-16, 1979	L-1
L-2 (a-e)	Sediment Sampling Results - Mechanical Data, Cycle 5, August 13-16, 1979	L-6

LIST OF FIGURES

FIGURE	DESCRIPTION	PAGE NO.
L-1 (a-s)	Sediment Gradation Curves, Cycle 5,	L-11

TABLE L-1a

** LAKE SEMINGLE WATER QUALITY MANAGEMENT STUDY **
C1225 OF ENGINEERS (CUNTRACT DACKOT-78-C-0101) PHASE II.CYCLE 5 (9/13-8/15.1979)

SEDIMENT SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION	STATION	STATION	STATLON
	01	02	03	24
	8/15/79	8/15/79	9/15/79	8/15/79
PHYSICAL & CHEHICAL DATA	•		•	•
PHYSICAL DATA				•
LISS IN IGNITION (MG/KS DRY WT) LISTURE CONTENT (% TOTAL DRY WT)	23.80	1000 21.70	1000	3100 22.30
11 SCELLANFOUS CHEMICAL DATA	•	•	•	
CARJON, PROMIC (GM CZKS DRY WT)	0.243	0.051	0.039	2.000
BITROSEN, TOTAL KJELDAHL (MG NZKS)	55.	37.	72.	36.
BOLL GEORGAST (MGZKG DRY WT)	< 30.	< 50.	< 50.	< 50.
PHOSPHORIS, TOTAL (MG PZKG DRY WT)	12.60	5.34	14.50	7.97
HEAVY METALS	:			
APSEMIC (MS ASZKS DRY WT) CNOMIUM (MG COZKG DRY WT) CHROMIUM (MG CRZKG DRY WT)	0.2A	0.11	0.19	0.47
	<0.50	<0.53	0.53	<0.59
	1.57	1.85	<1.20	5.21
COPPER (MS CUZKG DRY WT) LRON (MS FEZKG DRY WT) LEVO (MS FEZKG DRY WT)	<0.67	<0.64	<0.64	<0.64
	1470.	645	742.	1700.
	19.10	14.90	18.17	13.72
' TNIGATESE (MG MNZKG DRY WT)	119.9	115.7	30.2	82.2
' AERCURY (MG MGZKG DRY WT)	0.06	0.06	0.15	0.14
' MICKEL (MG MIZKG DRY WT)	<0.66	2.17	<0.64	1.87
STIC (AC SANKS DEA AL)	ú.36	3.83	2.46	4.00
CHEDRINATED HYDROCAPUONS	•			
ALDRIN (UJZKJ DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
ARDCLDR 1242 (UGZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
ARDCLDR 1254 (UGZKG DRY WT)	< 3.5	16.0	< 0.5	< 0.5
ARICUIR 1260 (UGZKG DRY WT) DHCHALDHA ISOMER (UGZKG DRY WT) HICHBITA ISOMER (UGZKG DRY WT)	< 2.5	< 0.5	< 0.5	< 0.5
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
HIC-BAMA ISOMER (UG/KG DRY WT) CREHDANC (UG/KG DRY WT) 2.5 D (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 2.5
	< 2.	< 2.	< 2.	< 2.
가요* DDD (USZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
역구리 DDE (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
기구가 DDT (USZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
P.P. DET (UGZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
DIELDRIN (UGZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
CHOUTHAL (UGZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
FUDDIN (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
HUDRIN NUDEHYDE (UGZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
SLYPIUSPHNIE (UGZKG DRY WT)	< 1.0	< 1.0	< 1.3	< 1.0
HETTACHEDR (UGZKG DRY WT) HETTACHEDR FROXENCE (UGZKG DRY WT) LITHUKYCHERR (UGZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
	< 7.2	< 0.2	< 0.2	< 0.2
* SERTE (JSZKG DRY MT) * FLATACHEGOSHURHGE (DSZKG DRY WT) * FLATACHEGOSHURHGE DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	< 0.5

** LAKE SEMINGER WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II.CYCLE 5 (8/13-8/16.1979)
SEDIMENT SAMPLING RESULTS

TABLE L-1b

PARAMETER NAME (UNITS)	STATION 95 8/15/79	STATION 06 8/15/79	STATION 07 8/14/77	STATION 08 8/14/79
PHYSICAL & CHEATCAL DATA	•			
PHYSECAL DATA				
LOSS ON ISNITION (MSZKS DRY WT)	2700	3100	1409	77900
IJESTURE CONTENT (% TOTAL DRY WT)	21.30	22.00	26.30	47•90
MISCELLANGUES CHEMICAL DATA				
* CARRONA DROANIC (SMICZKG DRY WT)	0.367	0.281	0.193	17.000
* ALTROSERA TOTAL KJELDARL (MG NZKG)	30.	54.	38.	1210.
* DIL & GREASE (NGZKG DRY WT)	< 50.	< 50.	100.	440.
PHOSPHORUS, TOTAL (MG PZKG DRY WT)	3.98	9•27	9.11	98.60
HEAVY METALS	•		•	
* ARSMIC (MG ASZKG DRY WT) * CASHIJM (MG CSZKG DRY WT) * CHRUTIUM (MG CRZKG DRY WT)	0.23	0.31	<0.05	5.90
	<0.50	<0.50	<0.50	2.30
	1.27	1.28	3.46	40.70
COPPER (MS CUZKG DRY WT) LEAD (MS PEZKG DRY WT) LEAD (MS PEZKG DRY WT)	<0.64	<0.64	<0.69	19.20
	930	804.	1240.	15100.
	16.40	18.30	10.40	61.70
MANGANESE THE MILKE DRY AT) MERCURY (ME HELKE DRY AT) MICKEL (ME NIZKE DRY AT)	33.1	134.0	53.6	1070.0
	0.05	0.04	0.14	0.71
	<0.64	<0.64	4.00	20.40
ZINC (19 ZNZKG DRY WT)	3.91	6.15	10.20	69.10
CHERT INATED HYDROCARBONS	•			
ALOPIN (UD.K) DRY WT) ARDCLIS 1254 (UD/KG DRY WT) ARDCLIS 1254 (UD/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	48.0
NROCHER 1260 (USZKG ORY WT) SHC-ALCHA ISUMER (USZKG ORY WT) SHC-OCTA ISUMER (USZKG ORY WT)	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
HIC-JAMMA ISOMFR (UG/KG DRY WT) CHLURUANI (UG/KG DRY WT) LIND J (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 2.	< 2.	< 2.	< 2.
다 마구에 있으면 (USZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
다 마마 : ODE (USZKG DRY WT)	1.1	< 0.1	< 0.1	1.5
다 마마 : ODE (USZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
P. P. ODE (JGZKG DRY WT) PLEORIA (JGZKG DRY WT) PLOUTHIL (JGZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
TIDTEN (USZKS DRY WT) TIDTEN ALDEHYDE (USZKG DRY WT) TIDTEN ALDEHYDE (USZKG DRY WT) TIDEN HIDSPIATY (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
	< 1.0	< 1.0	< 1.0	< 1.0
HADTACHEDR (USZKĄ DRY MT)	< 0.1	< 0.1	< 0.1	< 0.1
HEUTACHEDR FROXIDE (UGZKĄ DRY MT)	< 0.1	< 0.1	< 0.1	< 0.1
HADTHOXYCHEGR (USZKĄ DRY MT)	< 0.2	< 0.2	< 0.2	< 0.2
HIRTY (UG/KG DRY WT) PENTACHENOUNEROUN (UG/KG DRY WT) TUXADUERE (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	< 0.5

** LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY **
CURPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II.CYCLE 5 (9/13-8/16.1979

TABLE L-1c

PARAGETER NAME (UNITS)	STATION	STATION	STATION	STATION
	09	10	11	12
	-8/14/79	9/14/79	3/14/79	5/16/79
MYSICAL & CHEMICAL DATA	•	•	•	
PHYSICAL DATA				
LASS ON IGNITION (MG/KG DRY WI) MUISTURE CONTENT (% TOTAL DRY WT)	65600	89100	113000	9100
	46.60	53.10	62.40	22.70
MISCELLANEOUS CHEMICAL DATA	•			
CARUDN: SRJANIC (GM CZKG DRY WT)	17.100	23.900	27.409	2.920
MITROJEN: TOTAL KJELDAHL (MG NZKG)	1310.	1820.	2160.	357.
JIL 6 GREASE (MGZKG DRY WT)	690.	< 50.	385.	< 50.
HOS HORUS. TOTAL (MS PZKG DRY WT)	42.10	424.00	31.37	20.00
HEAVY METALS		•		
ARSEMIC (MG ASZKG DRY WT)	2.96	6.79	7.82	9.22
CADHIUM (MG COZKG DRY WT)	1.60	1.60	2.40	<0.50
CMPDHIUM (MG CRZKG DRY WT)	23.90	33.10	47.90	<1.20
COPPUR (MG CUNKS DRY WT)	12.50	20.90	24.60	<0.65
TRON (MG FENKG DRY WT)	13100.	16900.	20500.	362.
CUAD (MG PHINEG DRY WT)	30.00	63.60	55.00	13.10
HINGLYFST (MG MOVEG DRY MT) AFROURY (MG HGVEG DRY MT) MICKFL (MG NIVEG DRY MT)	821.0	1350.0	1250.0	79.3
	0.17	0.44	0.32	0.72
	14.20	22.30	25.13	<0.65
ZINC (45 ZY/KG DRY WT)	52.50	78.80	93.17	4.92
CHEDRINATED HYDRUCARDONS				
ALDRIN (USZKS DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
ARDULDR 1242 (UGZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
ARDULDR 1254 (UGZKG DRY WT)	31.0	< 0.5	< 0.5	< 0.5
AROCLOR 1260 (UG/KG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
BHC-ALPHA ISOMER (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
BHC-25TA ISOMER (UG/KG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
UHK-S44MA ISOMER (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
CHLORDAME (USZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
194 D (USZKG DRY WT)	< 2.	< 2.	< 2.	< 2.
P.P. DOD (USZKĘ DRY WT) D.P. DOT (USZKĘ DRY WT) D.P. DOT (USZKĘ DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	< 0.1	1.2	< 0.1	< 0.1
	< 0.2	< 0.2	< 0.2	< 0.2
PRODUCT (UG/KG DRY WI) PROJUBLE (UG/KG DRY WI) PROJUBLE (UG/KG DRY WI)	< 0.2	< 0.2	< 0.2	< 0.2
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
EMPRIM (USZKG DRY WT) FMPRIM ALDEHYDE (USZKG DRY WT) BLYPMSPMATE (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
	< 1.0	< 1.0	< 1.0	< 1.0
HEPTACHLOR (UGZKG DYY WT)	< 9.1	< 0.1	< 0.1	< 0.1
HEPTACHLOR (POXEDE (UGZKG PRY WT)	< 9.1	< 0.1	< 0.1	< 0.1
HETHIXYCHLOR (UGZKG PRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
THE COURS DRY FT (COURS DRY FT) OF PLACE CHARGE DRAFT (COURS DRA FL)	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.5	< 0.5	< 0.5	< 0.5

TABLE L-1d

** LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY **
CIRUS OF ENGINEERS (CONTRACT DACWOL-78-C-0101) PHASE (1.CYCLE 5 (8/13-8/16.1979)

SEDIMENT SAMPLING RESULTS

PARAMETER NAME (UNITS)	STATION	STATION	STATION	STATION
	13	14	15	16
	8/13/79	8/16/79	8/13/79	8/13/79
PHYSICAL & CHEMICAL DATA	•			
PHYSICAL DATA	•			
LUGS ON ISNITION (MG/KG DRY WT)	15200	164000	91700	4200
HUISTURE CONTENT (M TOTAL DRY WT)	29.40	70•10	53.10	24.60
AISCELLANEOUS CHEMICAL DATA	•			
CARBUN, ORGANIC (GM CZKG DRY WT) RITEDGEN, TOTAL KJELDAHL (MG NZKG) BIL & GREASE (MGZKG DRY WT)	4.290	54.500	29.700	0.305
	337.	4900.	1380.	167.
	< 50.	605.	< 59.	< 50.
PHUSPHORUS, TOTAL (MG PZKG DRY WT)	62.00	350.00	271.00	43.50
HEAVY METALS	•	•	•	
A9SENIC (MS ASZKG DRY WT)	* <0.05	2.61	5.82	6.05
CADMIJM (MG CDZKG DRY WT)	* 3.70	0.77	2.60	0.65
CHROMIU4 (MG CRZKG DRY WT)	* 13.59	53.20	4.51	4.44
COPPER (MG CUNKS DRY WT) LING (MG PENKS DRY WT) LING (MG PENKS DRY WT)	3.54	0.92	24.00	<0.66
	5710.	13900.	16700.	2340.
	14.50	83.70	42.30	16.00
HANGANESE (MS MNZKG DRY WT) HERCURY (MS HSZKG DRY WT) NICKEL (MS NIZKG DRY WT)	363.0	292.0	1220.0	71.6
	0.36	0.20	0.65	0.30
	3.90	2.69	6.83	5.13
SING (MS ZNZKG DRY WT)	17.60	21.90	75.70	8.75
CHUBRINATED HYDROCARBONS	•			
ALDRIM (USZKÓ DRY WY)	< 0.1	< 0.1	< 0.1	< 0.1
ARDCLOR 1242 (UGZKÓ DRY WY)	< 0.5	< 0.5	< 0.5	< 0.5
ARDCLOR 1254 (UGZKÓ DRY WY)	< 0.5	< 0.5	< 0.5	< 0.5
ARUCETR 1260 (UG/KG DRY WT) DHCHNLPHA ISOMER (UG/KG DRY WT) DHCHJETA ISOMER (UG/KG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1	< 0.1
JAC-JAMAN ESOMER (USZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
CILORDANE (USZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
2+4 D (USZKG DRY WT)	< 2.	< 2.	< 2.	< 2.
P.P. DOD (UGZKG DRY WT) P.P. DEE (UGZKG DRY WT) DOT (UGZKG DRY WT) UGZKG DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	9.4	5.4	0.6	< 0.1
	< 9.2	< 0.2	< 0.2	< 0.2
TOTAL CONTROL (USING DRY WT) TOTAL TRICK (USING DRY WT) TOTAL TRICK (USING DRY WT)	< 0.2	< 0.2	< 0.2	< 0.2
	< 0.1	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5	< 0.5
F FUDRIM (UGPKS DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
F FUDRIM ALMEMADS (UGPKS DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
F GLYPHISPHATE (UGPKS DRY WT)	< 1.0	< 1.0	< 1.0	< 1.0
F HIPTACHEON (UGZKG DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
F HIPTACHEOP REPOSING (UGZKG DHY WT)	< 0.1	< 0.1	< 0.1	< 0.1
F ACTHURYCHEOP (UGZKG DKY WT)	< 0.2	< 0.2	< 0.2	< 0.2
MIRCX (UJZK) DRY WT)	< 0.1	< 0.1	< 0.1	< 0.1
PENTACHLOROPHENOL (UGZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
TUXAPHENG (UJZKG DRY WT)	< 0.5	< 0.5	< 0.5	< 0.5
				·

** LAKE SEMINOLE WATE? QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACMOI-79-C-0101) PHASE II-CYCLE 5 (9/13-8/16-1970)
SEDIMENT SAMPLING PESULTS

TABLE L-1e

PARAMETER NAME (UNITS)	STATLIN 17 17 17 17 17 17 17 17 17 17 17 17 17	STATION 18 3/14/79	19 4
PHYSICAL S CHEMICAL DATA			
LUGS ON EGNETION (MG/KG DRY WT) E EBESTUPE CONTENT (% TOTAL DRY WT)	1300	7100	11400
* SINCELLAMEDUS CHEMICAL DATA ** CARBON, URBANIC (SM CZMG DRY WT) ** NITROSEN, TOTAL KJELDARL (4G NZKG) ** JIL 6 GREASE (MGZKG DRY WT)	0.195	9.250 227.	6.010 180.
HEAVY METALS	•	240. 127.00	< 50. 15.20
ARSENIC (MG ASZKG DRY WT) CADMIDM (MG CDZKG DRY WT) CHROMIUM (MG CRZKG DRY WT)	0.54	1.02	0.29
	0.77	0.75	0.51
	3.25	2.47	2.06
CUPPER (IG CUPKG DRY WT) 1901 (IG FERKS DRY WT) 1940 (IG PARKS DRY WT)	<0.64	<0.62	<0.64
	1760.	1.470	1940.
	10.60	1.4.50	10.20
4ANGANESE (MG MNZKG DRY WT)	65.3	173.0	212.0
4JRCJRY (MG HJZKG DRY WT)	0.34	0.20	0.44
HTCKUL (MG NIZKG DRY WT)	4.00	1.93	1.29
TING (MS ZNZKG DRY WT) CHEMRIMATED HYDROCARBONS	5.77	5.35	7.45
ALDRIN (UUZKG DRY WT) ARDCLOR 1242 (UUZKG DRY WT) MRUCLOR 1254 (UUZKG DRY WT)	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.5
	40.0	38.0	64.0
* ARUGEUR 1200 (UĞZKG DRY WT)	< 0.5	< 0.5	< 0.5
* BHCHALPHA ISDMER (UĞZKG DRY WT)	< 0.1	< 0.1	< 0.1
* BHCHUĞTA ISOMER (UĞZKG DRY WT)	< 0.1	< 0.1	< 0.1
* 3HC-JAMHA ISDMER (UGZKG DPY WT)	< 0.1	< 0.1	< 0.1
* CHLURDANE (UGZKG DPY WT)		< 0.5	< 0.5
* 2+4 U (UGZKG DRY WT)		< 2.	< 2.
. 31-5 JUL (RENKE DAY MI)	< 0.2	< 0.2	< 0.2
. 31-5 JUL (RENKE DAY MI)	< 0.1	< 0.1	< 0.1
. 31-5 JUL (RENKE DAY MI)	< 0.2	< 0.2	< 0.2
PAPE DOT (UG/KS DRY WT) DISLOTIN (UG/KG DRY WT) FADOTHOL (UG/KG DRY WT)	< 0.2	< 0.2	< 0.2
	< 0.1	< 0.1	< 0.1
	< 0.5	< 0.5	< 0.3
* ENDRIN (UGZKG DRY WT) * ENDRIN ALDEHYDE (JGZKG DRY WT) * SLYPHUSPHATE (UGZKG DRY WT)	<pre></pre>	< 0.1 < 0.1 < 1.3	< 0.1 < 0.1 < 1.0
* INPERCHENE (UGZKS DRY WT) ************************************	< 0.1	< 0.1	< 0.1
	< 0.1	< 0.1	< 0.1
	< 0.2	< 0.2	< 0.2
* 1 1775THREE (BENKE DEA MI) 5 SCHLYCHFORUHENTF (RENKE DEA MI) 11327 (125N2 DEA MI)	· < 0.1	< 0.1	< 0.1
	· < 0.5	< 0.5	< 0.5
	· < 0.3	< 0.5	< 0.5

TABLE L-2a

LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY **
CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE LIVEYCLE 5 (4713-4716,1070)

SEDIMENT SAMPLING RESULTS

PARAMETER NAME (UNITS)	374710N 91 8/15/79	STATION 02 3/15/79	03	5747104 04 3/15/79
MFCHANICAL DATA	•	•		•
SIEVE ANALYSIS	:	•		
350 MTL (K FINER THAN 30-1 MM)	100.0	100.0	100.0	100.0
360 MTL (K FINER THAN 25-4 MM)	100.0	100.0	100.0	100.0
360 MTL (K FINER THAN 19-1 MM)	100.0	100.0	100.3	100.0
3ED MTL (% FINER THAN 15.9 MM)	100.0	100.0	100.0	99.5
3ED 4TL (% FINER THAN 12.7 MM)		100.0	100.0	99.5
3ED MTL (% FINER THAN 9.52 MM)		100.0	100.0	99.6
DED MIL (% FINER THAN 0.55 MM)	137.0	99.7	100.3	79.5
USD MIL (% FINER THAN 3.35 MM)	97.8	99.7	34.1	99.5
DED MIL (% FINER THAN 1.65 MM)	99.3	97.1	24.7	34.6
HED MIL (% FINER THAN 0.295 MM)	33.50	12.20	3.74	11.97
HED MIL (% FINER THAN 0.149 M41	2.27	1.75	1.58	2.69
HED MIL (% FINER THAN 0.074 MM)	1.23	0.98	1.23	1.63
HYDROMETER ANALYSIS				
EGUIVALENT FALL DIA (MICRONS) X FINER THAN	35.	35.	35.	35.
	1.12	0.80	1.12	1.21
TELLVALINT TALL NIA (MICHUSE)	. ?3.	0.a0	23.	23.
S FINER THAN	2.80		0.90	0.71
UDJIVALENT FALL DIA (MICHUNS)	13.0	13.0	13.0	13.0
# FINER THAN	0.32	3.90	0.80	0.91
EQUIVALENT FALL DIA (MICROMS)	9.0	9.0	9+0	0.21
8 FINER THAN	0.32	0.90	0+64	9.7
EQUIVALENT FALL DIA (MICHUNS)	9.0	6.0	6.7	6.0
X FINER THAN	0.32	0.80	0.53	0.71
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	3.0	3.0	3.0	3.1
	0.32	0.80	0.6+	0.71
EDUIVALENT FALL DIA (MICRONS) S FINER THAN	1.00	1.00 0.00	1.00	1.99

LAKE SEMINOLS WATER QUALITY MANAGEMENT STUDY
CORPS OF ENGINEERS (CONTRACT DACWOI-78-C-0101) PHASE II.CYCLE 5 (3/13-9/16.1979)
SEDIMENT SAMPLING RESULTS

TABLE L-2b

PARAMETER NAME (UNITS)	STATION 05 8/15/79	31 AT 104 06 8/15/79	07	99 4
MECHANICAL DATA	•		•	9
SIEVE ANALYSIS				;
BED MTL (% FINER THAN 38.1 MM) JED MTL (% FINER THAN 25.4 MM) GED MTL (% FINER THAN 19.1 MM)	190.0 103.0 100.0	100.0 103.0 100.0	100.2 100.0 100.0	100.0 100.0 100.0
HED MTL (% FINER THAN 15.9 MM) HED MTL (% FINER THAN 12.7 MM) HED MTL (% FINER THAN 9.52 MM)	103.0 93.5 97.8	100.0	100.0	100.0 100.0 100.0
980 ATE (% FINER THAN 6.55 MM) 980 ATE (% FINER THAN 3-35 MM) 980 MTE (% FINER THAN 1.65 MM)	95.4 92.6 84.0	99. 9 99. 8 99. 2	100.0 100.0 100.0	100.0 100.0 100.0
1 350 4TL (% FINER THAN 0.295 MM) 1 JED 11TL (% FINER THAN 0.149 MM) 1 JED 14TL (% FINER THAN 0.074 MM)	7.50 2.18 1.38	13.90 2.12 1.56	39.90 13.10 8.04	93.70 93.40 79.80
HYDROMETER ANALYSIS	•	•	•	: 1
EBUIVALENT FALL DIA (MICRONS) & FINER THAN	35. 1.07	35. 1.28	35. 1.61	35. 49.70
EQUIVALENT FALL DIA (MICRONS) % FINER THAN	23.	23. 0.96	23. 1.23	23. 40.40
EJUIVALENT FALL DIA (MICRONS)	13.0 0.67	13.0 0.⊋u	13.0 1.29	13.0 39.70
EQUIVALENT FALL DIA (MICRONS) T FINER THAN	0.67	9.0 0.96	9.0	9.0 36.43
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	5.0 0.67	6.0 0.96	6.0 1.12	32.10
EQUIVALENT FALL DIA (MICRONS) % FINER THAN	3.0	3.7 0.96	3.n 0.96	3.0 25.50
EQUIVALENT FALL DIA (MICRONS) % FINER THAN	1.00	1.00	1.00	1.03

** LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY **

CURPS UP ENGINEERS (CONTRACT DAGWO1-78-C-0101) PHASE II.CYCLE 5 (8/13-8/16-1979)

SEDIMENT SAMPLING RESULTS

TABLE L-2c

PARAMETER NAME (UNITS)	STATION 09 8/14/79	574719N 10 10 8/14/79	• 11	12
NECHANICAL DATA	•			
SIEVE ANALYSIS	;	•		•
RED MTL (* FINER THAN 38.1 MM) RED MTL (* FINER THAN 25.4 MM) RED MTL (* FINER THAN 19.1 MM)	100.0 100.0 100.0	100.0 100.0	100.0	100.0 100.0 100.0
BED WIL (% FINER THAN 15.0 MM) BED WIL (% FINER THAN 12.7 MM) BED WIL (% FINER THAN 9.52 MM)	100.0	100.0	100.0	190.9 109.9 100.0
BED MTE (% FINER THAN 6.55 MM) DED MTE (% FINER THAN 3.35 MM) DED MTE (% FINER THAN 1.65 MM)	190.8 193.0 100.0	100.0 100.0 100.0	100.0	177.0 102.7 133.7
DED MTL (% FINER THAN 0.295 MM) DED MTL (% FINER THAN 0.149 MM) JED MTL (% FINER THAN 0.074 MM)	99.50 30.70 76.80	100.00 99.50 97.10	77.70 19.30 97.89	57.90 27.57 9.21
HYDROMETER ANALYSIS				i I
EQUIVALENT FALL DIA (MICRONS) Y FINER THAN	35. 48.80	35. 52.20	35. 46.82	35. 3.37
EQUIVALENT FALL DIA (MICRONS) Y FIMER THAN	23. 47.20	23. 47.20	23. 43.40	23. 3.21
EBUIVALENT FALL DIA (MICRONS) M FINER THAN	13.0	13.0 37.10	13.0 35.73	13.0 2.73
#27/IVALENT FALL DIA (MICRONS) # FINER THAN	31.00	7.0 33.70	9.1	9.0 2.35
EQUIVALENT FALL DIA (MICRONS) & FIMER THAN	6.0 25.90	6.0 27.no	6.7 30.32	6.7
EQUIVALENT FALL DIA (MICRONS) X FINER THAN	3.0 19.50	3.9 20.20	3.0 21.20	3.0 1.29
EGGIVALENT FALL DIA (MICRUNS) X FINER THAN	1.00 13.50	1.09 13.33	1.02	1.00

TABLE L-2d

40 LAKE SEMINDLE WATER QUALITY MANAGEMENT STUDY +6

CORPS OF ENGINEERS (CONTRACT DACMOI-78-C-0101) PHASE 11-CYCLE 5 (9/13-8/16-1970)

SEDIMENT SAMPLING RESULTS

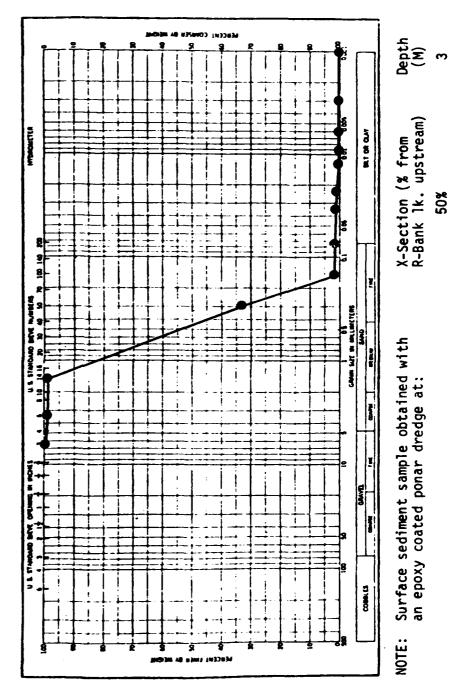
PARAMETER NAME (UNITS)	13	STATION 14 5/16/79	STATION 15 8/13/79	16 1
MFCHANICAL DATA			•	
SIEVE ANALYSIS	,			
GED MTL (% FINER THAN 38-1 MM) GED MIL (% FINER THAN 25-4 MM) GED MTL (% FINER THAN 19-1 MM)	130.0 103.0 130.0	100.0 100.3 103.0	100.2 100.3 100.0	190.0 190.1 190.0
JED 4TL (% FINER THAN 15.0 MM) HED MTL (% FINER THAN 12.7 MM) JED ATL (% FINER THAN 9.52 MM)	100.0 100.0 100.0	169.0 100.0 100.0	100.0 100.0 100.0	100.0 100.0 90.0
. JED 4TL (% FINER THAN 6.55 MM) . HED MIL (% FINER THAN 3.35 MM) . HED WIL (% FINER THAN 1.65 MM)	100.0 100.0 100.0	100.0	102.0 100.2 100.0	99.9 99.3 99.6
950 MTL (% FINER THAN 0.295 MM) 950 MTL (% FINER THAN 0.149 MM) 950 MTL (% FINER THAN 0.074 MM)	97.30 53.90 12.40	99.10 97.39 92.50	99.13 96.33 68.60	2.31 2.43 1.37
HYDRUMETER ANALYSIS				
EQUIVALENT FALL DIA (MICRONS)	35. 5.14	35. 10.20	35. 26.60	35. 1.60
EQUIVALENT FALL DIA (MICHONS) Y FINER THAN	2J. 4.50	23. 9.43	50.50	2.3.
EQUIVALENT FALL DIA (MICHONS) * ** ** ** ** ** ** ** *** *** *** **	13.0 3.85	13.0 7.61	13.0	13.0
EQUIVALENT FALL DIA (MICRONS) * X FINED THAN	7.0 3.85	9.0 6.30	7.0 14.30	1.20
* EDULYNENT FALL DIA (MICRONS) * FINER THAN	6.0 3.53	6.0 5.17	12.13	1.12
EQUIVALENT FALL DIA (MICRONS) FINER THAN	3.0 2.89	3.0 3.65	3.0 9.63	1.12
EDULVALENT FALL DIA (MIGRUNS) * * FINER THAN **	1.00	1.30	1.07	1.07 3.96

LAKE SEMINULE WATER QUALITY MANAGEMENT STUDY
CHAPS OF ENGINEERS (CONTRACT DACWOL-70-C-0101) PHASE II-CYCLE 5 (3/13-8/16-1979)
SEDIMENT SAMPLING RESULTS

TABLE L-2e

PARAMETER NAME (UNITS)	STATION 17 17 17/13/79	STATION 13 3/14/79	1 1 7
MECHANICAL DATA	•	,	
SIEVE ANALYSIS	•	,	
350 MTL (% FINER THAN 38-1 MM) 300 MTL (% FINER THAN 25-4 MM) 350 MTL (% FINER THAN 19-1 MM)	190.9 100.9 109.0	100.0 26.4 89.0	100.0 100.0 93.7
360 MTE (% FINER THAN 15.9 MM) 360 MTE (% FINER THAN 12.7 MM) 360 MTE (M FINER THAN 9.52 MM)	103.0 107.0 100.0	83.9 79.1 77.4	92.7 91.1 73.7
HED ATE (# FINER THAN 5.05 MM) HED TIE (# FINER THAN 3.35 MM) HED ATE (# FINER THAN 1.05 MM)	107.0 107.0 100.0	75 • 1 72 • 2 66 • 4	65.5 55.7 45.7
SED MIL (% FINER THAN 0.295 MM) MED MIL (% FINER THAN 0.199 MM) SEO MIL (% FINER THAN 0.074 MM)	19.20 2.29 2.02	4.13 3.58 3.33	3.47 3.35 2.49
HYDROMETER ANALYSIS			1
ENGIVALENT FALL DIA (MICRONS) # FINER THAN	35. 1.44		35. 2.41
EQUIVALENT FALL DIA (MICHONS) 4 FINER THAN	23.	23. 2.09	23. 2.25
• EDUIVALENT FALL DIA (MICRUNS) • G FINER THAN	13.2	13.0 1.76	13.0 2.09
" "JUIVALENT FALL DIA (MICHONS) " FINER THAN "	9.0 1.44	9.0 1.23	2.09
* EQUIVALENT FALL DIA (MICRONS) * * FINER THAN * * ***	1.29	6.9 1.28	2.09
* EJULVALENT FALL DIA (MICRONS) *	3.0 1.23	3.0 1.28	2.09
PEQUIVALENT FALL DIA (MICRONS) V FINER TRAN *	1.00	1.00	1.77

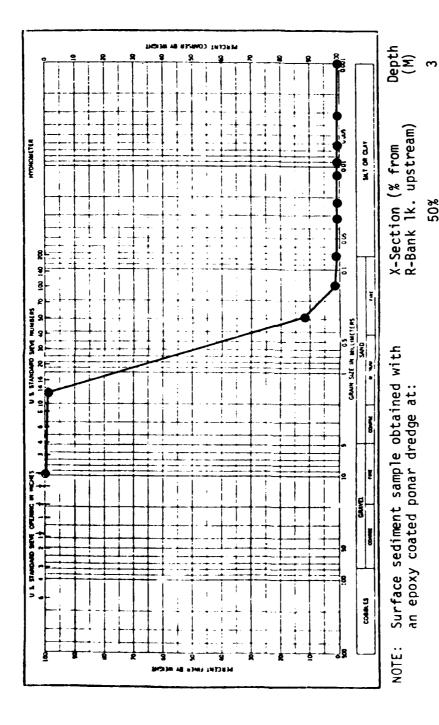
FIGURE L-1a. SEDIMENT GRADATION CURVE, STATION 1, CYCLE 5, AUGUST 13-16, 1979.

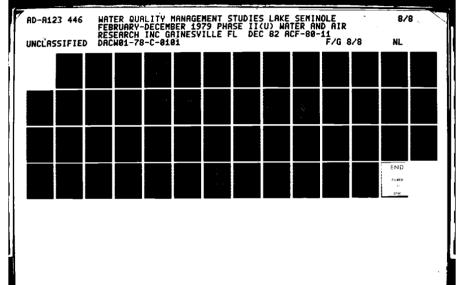


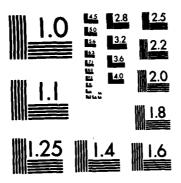
Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

X-Section (% from R-Bank lk. upstream)

FIGURE L-15. SEDIMENT GRADATION CURVE, STATION 2, CYCLE 5, AUGUST 13-16, 1979.







MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

FIGURE L-1c. SEDIMENT GRADATION CURVE, STATION 3, CYCLE 5, AUGUST 13-16, 1979.

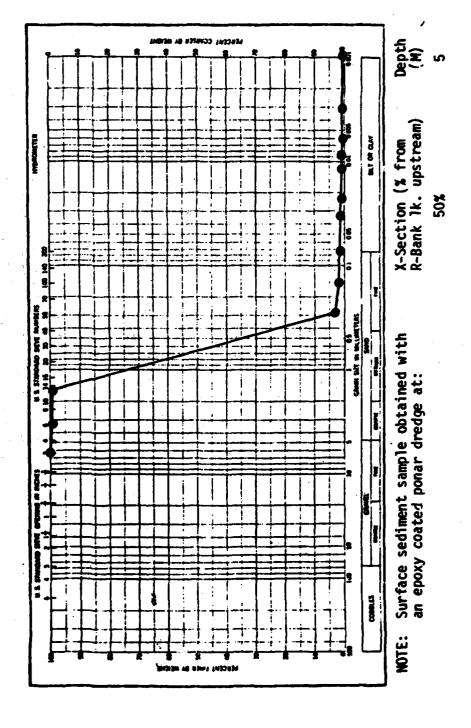


FIGURE L-1d. SEDIMENT GRADATION CURVE, STATION 4, CYCLE 5, AUGUST 13-16, 1979.

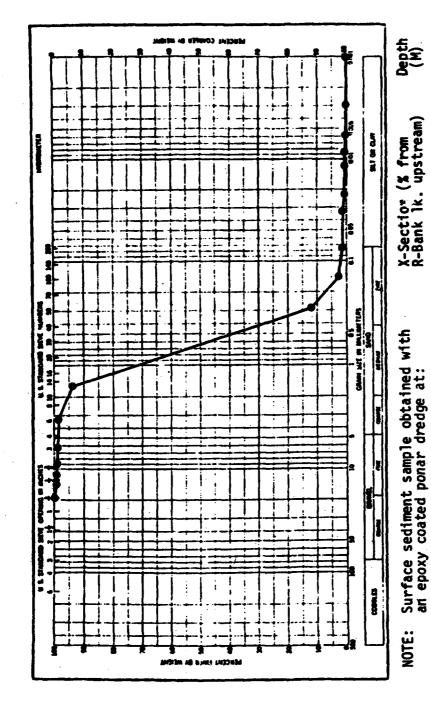
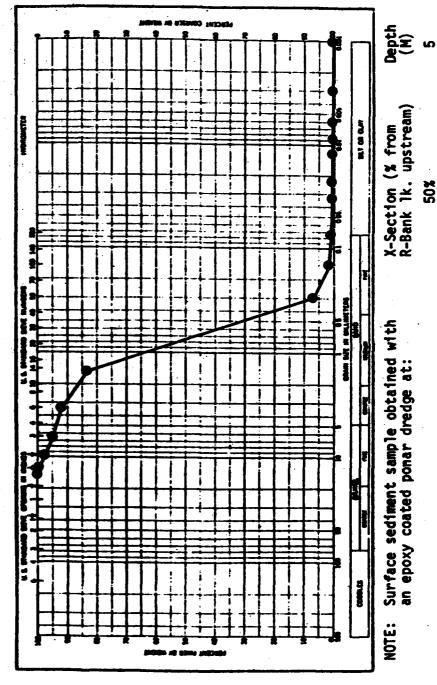


FIGURE L-1e. SEDIMENT GRADATION CURVE, STATION 5, CYCLE 5, AUGUST 13-16, 1979.



Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

X-Section (% from R-Bank lk. upstream)

FIGURE L-14. SEDIMENT GRADATION CURVE, STATION 6, CYCLE 5, AUGUST 13-16, 1979.

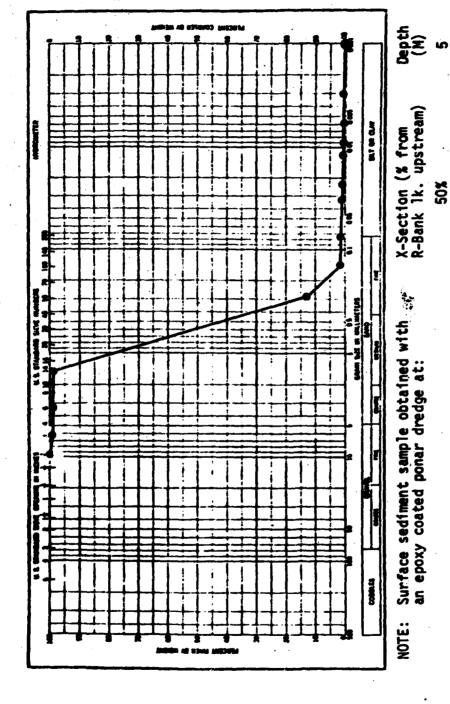
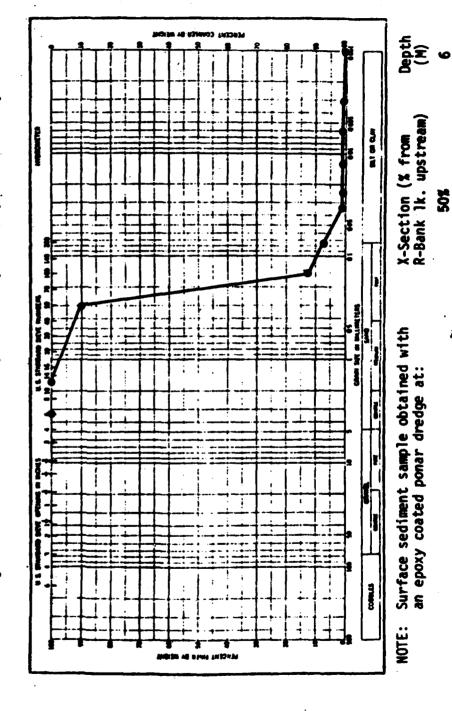
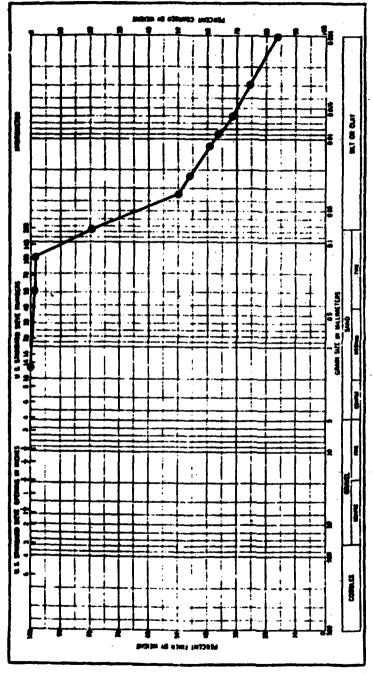


FIGURE L-19. SEDIMENT GRADATION CURVE, STATION 7, CYCLE 5, AUGUST 13-16, 1979.



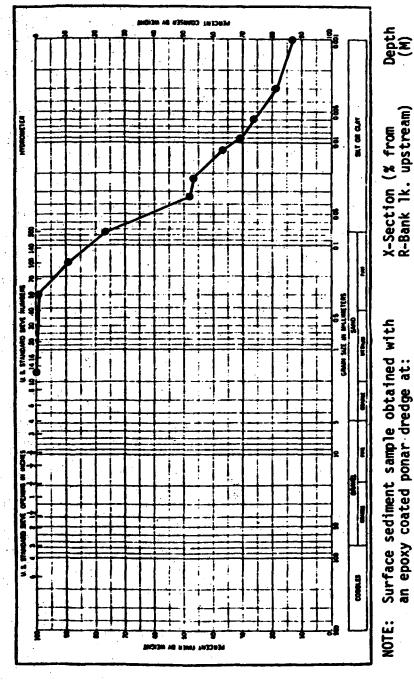
3

SEDIMENT GRADATION CHRVE, STATION 8, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-1h.



X-Section (% from R-Bank lk. upstream)

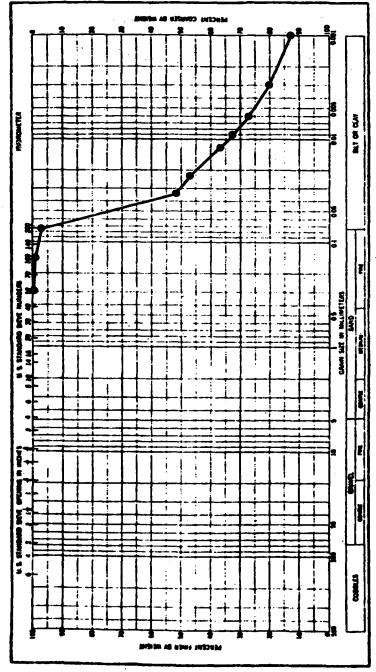
FIGURE L-11. SEDIMENT GRADATION CURVE, STATION 9, CYCLE 5, AUGUST 13-16, 1979.



Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

X-Section (% from R-Bank lk. upstream)

SEDIMENT GRADATION CURVE, STATION 10, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-15.

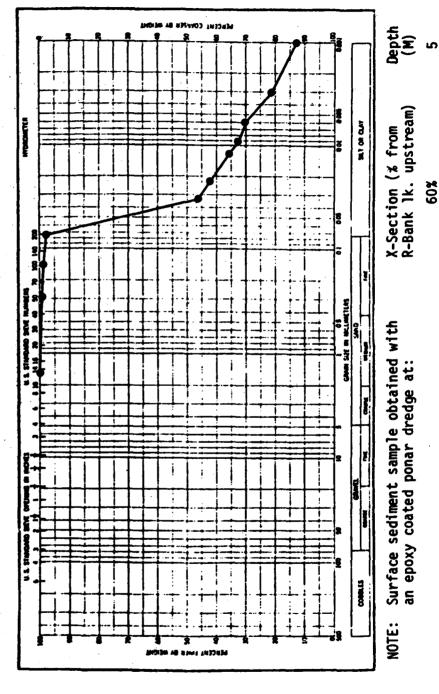


NOTE: Surface sediment sample obtained with X-Section an epoxy coated ponar dredge at:

X-Section (% from R-Bank lk. upstream)

Depth (M)

FIGURE L-1K. SEDIMENT GRADATION CURVE, STATION 11, CYCLE 5, AUGUST 13-16, 1979.

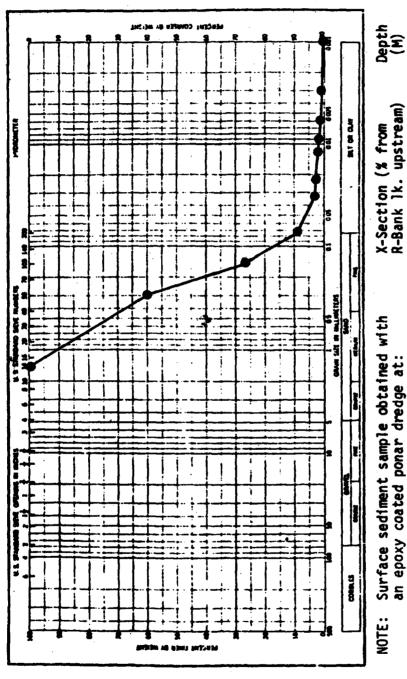


Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

X-Section (% from R-Bank lk. upstream)

809

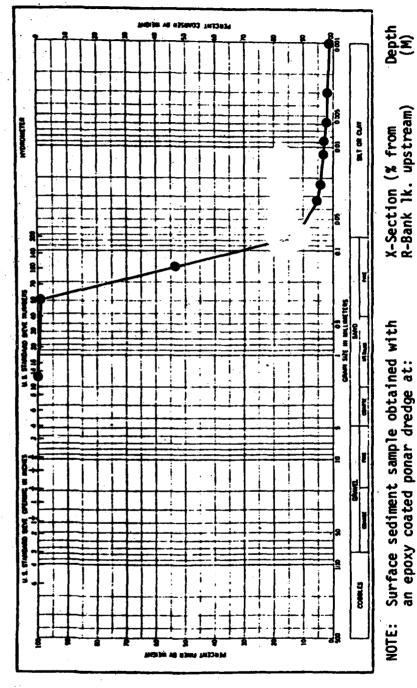
SEDIMENT GRADATION CURVE, STATION 12, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-11.



X-Section (% from R-Bank lk. upstream) 50% Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

L-22

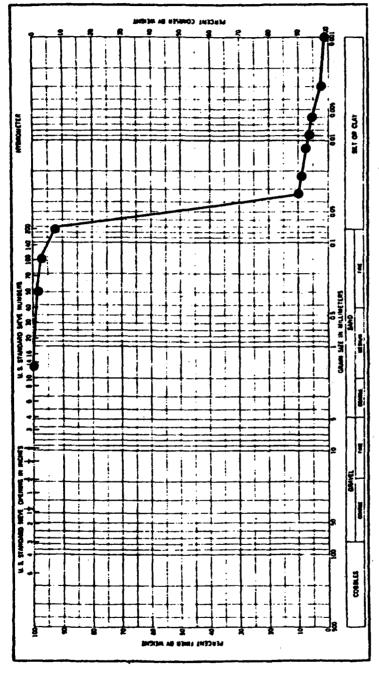
SEDIMENT GRADATION CURVE, STATION 13, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-1m.



Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

X-Section (% from R-Bank lk. upstream)

FIGURE L-1n. SEDIMENT GRADATION CURVE, STATION 14, CYCLE 5, AUGUST 13-16, 1979.



X-Section (% from R-Bank lk. upstream) Surface sediment sample obtained with an epoxy coated ponar dredge at: NOTE:

ξ Σ

FIGURE L-10. SEDIMENT GRADATION CURVE, STATION 15, CYCLE 5, AUGUST 13-16, 1979.

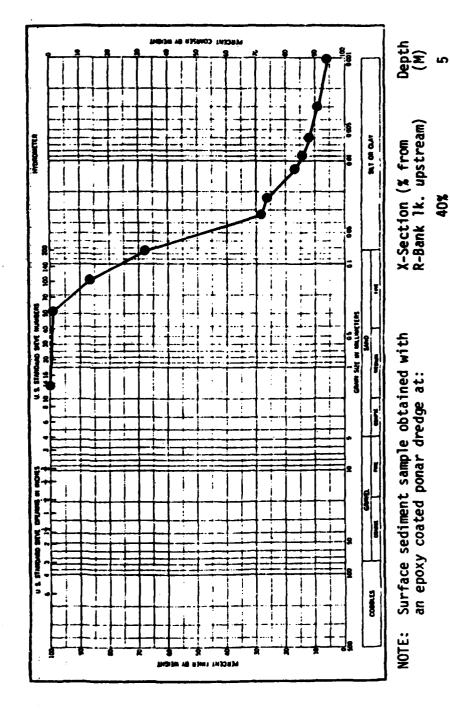
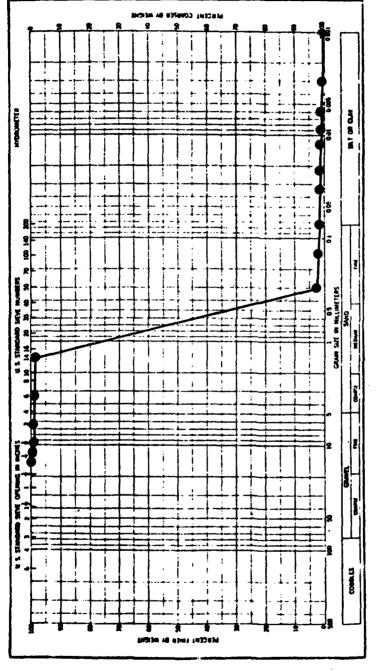


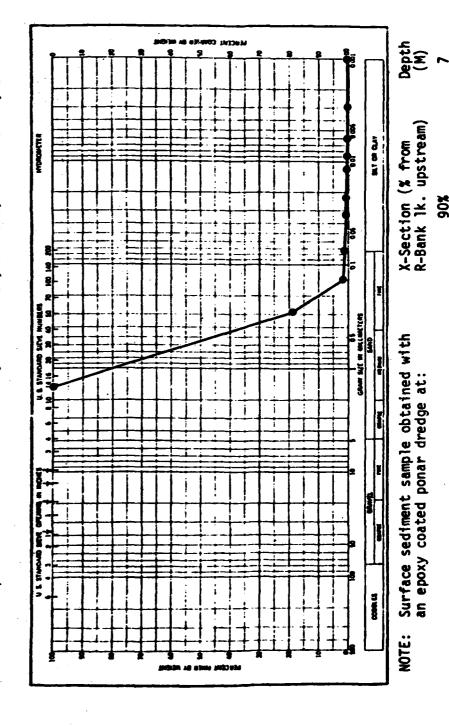
FIGURE L-1p. SEDIMENT GRADATION CURVE, STATION 16, CYCLE 5, AUGUST 13-16, 1979.



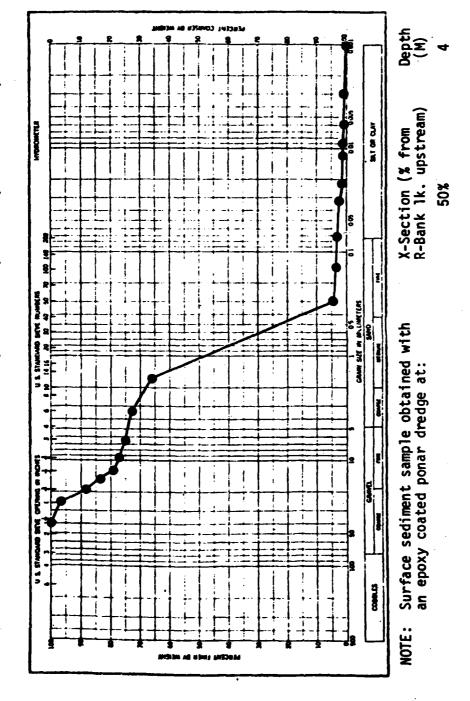
NOTE: Surface sediment sample obtained with X-Se an epoxy coated ponar dredge at: R-Ba

X-Section (% from D R-Bank lk. upstream)

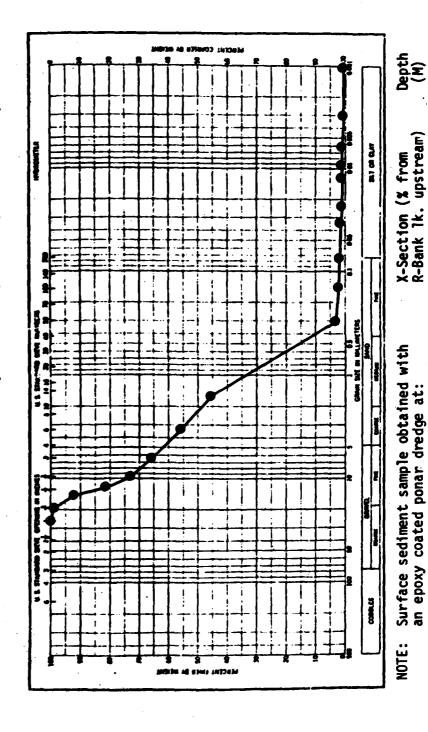
FIGURE L-19. SEDIMENT GRADATION CURVE, STATION 17, CYCLE 5, AUGUST 13-16, 1979.



SEDIMENT GRADATION CURVE, STATION 18, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-1r.



SEDIMENT GRADATION CURVE, STATION 19, CYCLE 5, AUGUST 13-16, 1979. FIGURE L-1s.



APPENDIX N
AQUATIC MACROPHYTES

LIST OF TABLES

TABLE	<u>TABLE</u> <u>DESCRIPTION</u>			
M-1	Aquatic Macrophytes Noted to be Common To Abundant in Lake Seminole During the 1978 & 1979 Field Surveys	M-1		
M-2	Approximate Percent Cover of the Dominant Aquatic Macrophytes Observed in Various Areas of Lake Seminole 1978 & 1979	M-3		

TABLE M-1

AQUATIC MACROPHYTES NOTED TO BE COMMON TO ABUNDANT IN LAKE SEMINOLE DURING THE 1978 & 1979 FIELD SURVEYS

Algae	S*	Ε	F
Chara spp.; chara	x		
Lyngbya/Spirogyra; algal mat			X
Nitella spp.; nitella	×		
Vascular			
Non-Adada amandanaa anakan adaa a			
Justicia americana; water willow		X	
Sagittaria latifolia; common arrowhead		X	
Alternanthera philoxeroides; alligator-weed		X	
Colocasia esculenta; wild taro		X	
Orontium aquaticum; goldenclub		X	
Alnus serrulata; speckled alder		X,	
Betula nigra; river birch		X	
Brasenia schreberi; watershield		X	
Cabomba caroliniana; fanwort	X		
Sphencelea zeylandica; chicken spike		X	
Ceratophyllum demersum; common coontail	X		
Ceratophyllum echinatum; prickly coontail	X		
Mikania scandens; climbing hempweed		X	
Carex spp.; sedges		X	
Cyperus spp.; sedges		X	
Eleocharis acicularis; slender spikerush		X	
Eleocharis cellulosa; spikerush	•	X	
Eleocharis equisetodes; knotted spikerush		X	
Hydrochloa carolinensis; water grass		X	
Leersia hexandra; cutgrass		X	
Panicum hemitomum; maidencane		X	
Panicum repens; torpedograss		X	
Zizaniopsis miliaceae; giant cutgrass	•	X	
Hypericum spp.; St. Johns wort		X	
Myriophyllum brasiliense; parrotfeather	x	••	
Myriophyllum spicatum; Eurasian watermilfoil	×		
Egeria densa; elodea	X		
Hydrilla verticillata; hydrilla	X		
Vallisneria americana; eelgrass	x		
Juncus effusus; soft rush	^	x	
Juncus spp.; rushes		X	
Lemna perpusilla; common duckweed		~	x
Spirodela polyrhiza; giant duckweed			x
Spirosela politilita, Signit ancimeca			^

TABLE M-1 (continued)

	S	Ε	F
Utricularia floridana; giant bladderwort	x		
Utricularia inflata; purple bladderwort	X		
Utricularia purpurea; floating bladderwort	X		
Mayaca fluviatilis; bog moss	×		
Nymphoides aquaticum; banana lily		x	
Myrica cerifera; wax myrtle		X	
Najas guadalupensis; southern naiad	x	••	
Najas minor; naiad	X		
Nelumbo lutea; American lotus		X	
Nuphar advena; spatterdock		X	
Nymphaea odorata; fragrant waterlily		X	
Nyssa aquatica; swamp tupelo		X	•
Nyssa ogeche; ogeche tupelo		X	
Ludwigia decurrens; singed waterprimrose	•	X	
Ludwigia leptocarpa; waterprimrose		· X	
Ludwigia palustris; water purslane		X	
Ludwigia peruviana; waterprimrose	÷	X	
Platanus occidentalis; sycamore		X	
Polygonum spp.; smartweeds	•	X	
Eichorrnia crassipes; water hyacinth			x
Pontedaria cordata; pickerelweed	•	x	
Pontedaria cordata; pickerelweed Pontedaria lanceolata; southern pickerelweed		X	
Potamogeton diversifolius; snailseed pondweed		X	
Potamogeton illinoiensis; Illinois pondweed	×	-	
Potamogeton nodosus; American pondweed		X	
Cephalanthus occidentalis; buttonbush		X	
Salix caroliniana; coastal plain willow		x	
Salix nigra; black willow		x	
Saururus cernuus; lizard's tail		X	
Bacopa caroliniana; water mint	. x		
Sparganium americanum; burreed		x	
Taxodium ascendens; pond cypress		X	
Taxodium distichum; bald cypress		X	
Typha domingensis; southern cattail	•	x	
Typha latifolia; cattail		X	
Hydrocotyle ranunculoides; splitleaf pennywort			X
Xyris spp.; yellow-eyed grass		X	
· · · · · ·			

S = Submersed E = Emergent F = Floating

TABLE M-2

APPROXIMATE PERCENT COVER OF THE DOMINANT AQUATIC MACROPHYTES OBSERVED IN THE VARIOUS AREAS OF LAKE SEMINOLE 1978 & 1979

The commence of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec

	<u>s</u> *	Ē	F
Chattahoochee River Area			
Egeria densa; egeria or elodea Zizaniopsis miliaceae; giant cutgrass Justicia americana; water willow Colocasia esculenta; wild taro Sphenoclea zeylandica; chicken spike Eichorrnia crassipes; water hyacinth	P	90 P P 5	P
Game Management Area			
Myriophyllum brasiliensis; parrotfeather Cabomba caroliniana; fanwort Potamogeton illinolense; Illinois pondweed Najas minor; naiad Najas quadalupensis; southern naiad Hydrilla verticillata; hydrilla Utricularia spp.; bladderworts Ceratophyllum demersum; common coontail Bacopa caroliniana; water mint Nymphaea odorata; fragrant water lily Brasenia schreiberi; water shield Folygonum spp.; smartweeds Pontedaria cordata; pickerelweed Panicum repens; torpedograss Panicum hemitomum; maidencane Leersia hexandra; cutgrass Eleocharis spp.; spikerushes Zizaniopsis miliaceae; giant cutgrass Eichorrnia crassipes; water hyacinth Hydrocotyle ranunculoides; splitleaf pennywort Lemna perpusilla; common duckweed	75 5 5 5 5 6 7 7 7 8	5 P P 5 5 5 P	P P
Fish Pond Drain Area	•		
Hydrilla verticillata; Hydrilla Cabomba caroliniana; fanwort Najas spp; naiads Potamogeton illinoiense; Illinois pondweed Nitella sp.; nitella Panicum repens; torpedograss	75 P 5 5 P P		

TABLE M-2 (continued)

	<u>s</u>	<u>E</u> .	<u>F</u> .
Panicum hemitomum; maidencane Leersia hexandra; cutgrass Typha spp.; cattails Nuphar advena; spatterdock Nymphaea odorata; fragrant water lily Brasenia schreiberi; watershield Nymphoides aquaticum; banana lily Nelumbo lutea; American lotus	P P P	P P P P	
Turkey Pond Drain	•	•	
Hydrilla verticillata; hydrilla Potamogeton illinoiense; Illinois pondweed Hyriophyllum brasiliense; Eurasian watermilfoil Limnophila sessiliflora; limnophila Chara sp.; chara Nitella sp.; nitella	70 15 5 P P		
Typha spp.; cattails Panicum repens; torpedograss	•	P P	
Panicum hemitomum; maidencane		P.	
Pontedaria cordata; pickerelweed Eichorrnia crassipes; water hyacinth		P P	P
Lake Seminole Island Area			
Myriophyllum spicatum; Eurasian watermilfoil Hydrilla verticillata; hydrilla Ceratophyllum demersum; coontail Potamogeton illinoiense; Illinois pondweed Chara spp.; chara Cabomba caroliniana; fanwort	75 5 10 P	F	
Typha spp.; cattails Zizaniopsis miliaceae; giant cutgrass		5 5	
Panicum repens; torpedograss		P	
Panicum hemitomum; maidencane Justicia americana; water willow		P P	
Eleocharis spp.; spikerushes		P	
Pontedaria cordata; pickerelweed Nyssa spp.; tupelo		P P	
Taxodium spp.; cypress		P	
Cephalanthus occidentalis; buttonbush		P	
<u>Nymphaea</u> odorata; fragrant water lily		. Р 5	

TABLE M-2 (continued)

Brasenia schreiberi; water shield Nymphoides aquaticum; banana lily Nelumbo lutea; American lotus Potamogeton nodosus; American pondweed	<u>s</u>	<u>E</u> P P 5 P	<u>F</u>
Potamogeton diversifolius; snailseed pondweed Eichorrnia crassipes; water hyacinth Lemma perpusilla; common duckweed		P	P P
Lower Spring Creek Area			
Myriophyllum spicatum; Eurasian watermilfoil Potamogeton illinoiense; Illinois pondweed Typha spp.; cattails Leersia hexandra; cutgrass Nymphaea odorata; fragrant water lily Eichorrnia crassipes; water hyacinth	75 20	P P P	P
Spring Creek Area			
Myriophyllum spicatum; Eurasian watermilfoil Potamogeton illinoiense; Illinois pondweed Najas spp.; naiads Typha spp.; cattails Nuphar advena; spatterdock Ludwigia spp.; water primroses Eichorrnia crassipes; water hyacinth	90 5 P	P P P	P
Silver Lake Area			
Myriophyllum spicatum; Eurasian watermilfoil Hydrilla verticillata; hydrilla Najas 5.p.; naiads Potamogeton illinoiense; Illinois pondweed Typha spp.; cattails Zizaniopsis miliaceae; giant cutgrass Panicum repens; torpedograss Panicum hemitomum; maidencane Leersia hexandra; cutgrass Eichorrnia crassipes; water hyacinth Hydrocotyle ranunculoides; splitleaf pennywort	75 5 5 5	P P P P	PP
Flint River Area			
Myriophyllum spicatum; Eurasian watermilfoil Myriophyllum brasiliense; parrotfeather Najas spp.; naiads	P P P		

TABLE M-2 (Continued)

	<u>s</u>	E	. <u>F</u>
Lyngbya-Spyrogyra algal mats	10		
Zizaniopsis miliaceae; giant cutgrass		5	
Typha spp.; cattails		Ρ	
Alternanthera philoxeroides; alligatorweed		P	
Eichorrnia crassipes; water hyacinth	•		5
Hydrocotyle ranunculoides; splitleaf pennywort			P
Lemna perpusilla; common duckweed			P
Spirodela polyrhiza; giant duckweed			P

*S = Submerged E = Emergent F = Floating

APPENDIX N SPIKED SAMPLE RECOVERIES

LIST OF TABLES

TABLE	DESCRIPTION	PAGE NO.
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N-2	Spiked Sample Recoveries, Cycle 2, April 2-4, 1979	N-2
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N-4	Spiked Sample Recoveries, Cycle 4, July 16-19, 1979	N-4
N-5	Spiked Sample Recoveries, Cycle 5 August 13-16, 1979	, N-5
N-6	Spiked Sample Recoveries, Cycle 6 September 24-26, 1979	, N-6
N-7	Spiked Sample Recoveries, Cycle 7 December 3-6, 1979	, N-7

TABLE N-1 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACWO1-73-C-0101)
PHASE II, CYCLE 1
SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	Analytical Results		
	Number		Sample	Spiked Sample	% Recovery
Zinc,	14	50	15	81	132
Total (ug Zn/l)	16	50	20	65	90
Iron,	14	50	79	132	104
Dissolved (ug Fe/1)	16	50	203	255	103
Iron,	14	200	436	658	111
Total (µg Fe/1)	16	200	1300	1490	98
Manganese,	14	50	<6	71	142
Dissolved (µg Mn/l)	16	50	36	67	82
Manganese,	14	50	17	68	102
Total (µg Mn/l)	16	50	37	88	102

TABLE N-2

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACMO1-78-C-0101) PHASE II, CYCLE 2 SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	Analytical Results			
	Number		Sample	Spiked Sample	% Recovery	
Zinc,	9	44	50	98	109	
Total (1g Zn/l)	15	44	157	210	120	
Iron,	9	50	224	276	104	
Dissolved (ug Fe/1)	15	50	200	301	202	
Iron,	9	150	1235	1258	15	
Total (µg Fe/1)	15	150	983	1240	171	
Manganese,	9	48	25	86	127	
Dissolved (ug Mn/1)	15	48	<6	93	>181	
Manganese,	9	48	73	118	94	
Total (ug M n/l)	15	48	62	118	117	

TABLE N-3 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)
PHASE II, CYCLE 3
SPIKED SAMPLE RECOVERIES

Parameter		Spike Value	Sample	nalytical Resul Spiked Sample	B 1000
	Number		12	62.0	100.0
Zinc,	4	50		56.0	98.2
Total (ug Zn/l)	11	50	7	153.0	97.5
	4	50	107	155.0	101 1
Iron, Dissolved	4.1	50	221	274.0	101.1
(ug Fe/1)	11	750	1580	2250.0	96.5
Iron,	4	-	051	1590.0	99.3
Total (ÿg Fe/l)	11	750	851	40.0	105.2
Manganese,	4	20	18		102.5
Dissolved	11	20	6	20.5	101.1
(µg Mn/1)	4	100	78	180.0	
Manganese, Total	\ -	100	42	156.0	109.9

TABLE N-4 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101)
PHASE II, CYCLE 4
SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	Analytical Results		
	Number		Sample	Spiked Sample	% Recovery
Zinc,	9	50	37	87	100
Total (vg Zn/l)	15	50	32	82	100
Iron,	9	50	99	141	84_
Dissolved ((vg Fe/l)	15	50	58_	103	90_
Iron,	9	750	848	1630	104
Total (µg Fe/l)	15	750	398	1200	107
Manganese,	9	20	<6	19	100
Dissolved (µg Mn/l)	15	20	12	31	95
Manganese,	9	100	117	240	123
Total (µg Mn/l)	15	100	60	150	90

TABLE N-5

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II, CYCLE 5 SPIKED SAMPLE RECOVERIES

Parameter	Station Number	Spike Value	Analytical Results		
			Sample	Spiked Sample	% Recovery
Zinc, Total (µg Zn/l)	14	50	24	88	119
	16	50	35	82	96
Iron, Dissolved (µg Fe/l)	14	50	66	110	95
	16	50	120	170	108
Iron, Total (µg Fe/l)	14	750	373	1120	100
	16	750	540	1300	101
Manganese, Dissolved (µg Mn/l)	14	20	13	25	70
	16	20	<6	14	78
Manganese, Total (µg Mn/l)	14	100	38	153	111
	16	100	63	180	110

TABLE N-6 LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACMO1-78-C-0101)
PHASE II, CYCLE 6
SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value	7	Analytical Resul	ts
	Number		Sample	Spiked Sample	% Recovery
Zinc,	11 S	50	13	55	84
Total (#g Zn/1)	4		<2	70	140
Iron,	11 S	50	50	100	100
Dissolved (ug Fe/1)	4		21	69	96
Iron,	11 S	750	1510	2260	100
Total (ÿg Fe/l)	4		435	1290	114
Manganese,	11 S	20	<6	17	85
Dissolved (µg Mn/1)	4		<6	16	80
Manganese,	· 11 S	100	81	186	105
Total (µg Mn/1)	4		30	162	132

TABLE N-7

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY CORPS OF ENGINEERS (CONTRACT DACWO1-78-C-0101) PHASE II, CYCLE 7 SPIKED SAMPLE RECOVERIES

Parameter	Station	Spike Value		Analytical Resul	ts
	Number		Sample	Spiked Sample	% Recovery
Zinc,	15	50	38	80	84
Total (Pg Zn/l)	9	50	43	78	70
Iron,	15	50	318	369	102
Dissolved (ug Fe/1)	9	50	41	100	118
Iron,	15	750	1290	1800	100
Total (µg Fe/l)	9	750	877	1370	100
Manganese,	15	20	12	41	145
Dissolved (µg Mn/l)	9	20	<6	30	120
Manganese,	15	100	55	149	96
Total (µg Mn/l)	9	100	58	159	101

APPENDIX O

MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES

LIST OF TABLES

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TABLE O-1a
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE I, CYCLE 4, AUG. 14-17, 1978

Total Constant		10.01	12.5	102.03		50 20172		10.00
Tours species	יי	Station of	3545	Station ut	2535	LOU OS	Stat	Station 04
	l/bm	me/1	T/pm	me/1	l/6m	me/l	mg/1	me/1
Calcium (Ca)	4.1	0.205	6.0	0.299	5.1	0.254	6.0	0.299
Magnestum (mg)	2.8	0.231	3.0	0.247	2.6	0.214	3.9	0.321
Potassium (K)	1.6	0.041	1.6	0.041	1.6	0.041	1.6	0.041
Sodium (Na)	4.37		4.27	0.186	4.37	0.190	5.93	0.258
Alkalinity (CaCO3)	18.0		17.0	0.340	17.0	0.340	20.0	0.400
Sulfate (SO4)	5.0	0.104	0.9	0.125	5.0	0.104	8.0	0.166
Chloride (C1)	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
ΣCations ≖	6	999	0	.773	0	0.699	0	0.919
EAntons =	0	0.577	0	0.578	0	.557	0	0.679
% Difference =	7.	2	14	14.4	11.	3	15	15.0
Hardness =	21.	0	26	26.0	23.0	0	30.0	0.

Tonic Species	Stat	Station 05	Stat	Station 06	Stat	Station 07	Stat	Station 08
	My/	me/T	T/gm	me/I	l/bm	ne/T	l/gm	me/l
Calcium (Ca)	4.3	0.215	4.3	0.215	7.4	0.369	7.9	0.394
Magnesium (mg)	4.1	0.337	1.0	0.082	2.5	0.206	2.6	0.214
Fotassium (K)	1.6	0.041	1.7	0.044	9.1	0.041	1.4	0.036
Sodium (Na)	5.23	0.228	5.07	0.221	2.07	0.221	5.20	0.226
Alkalinity (CaCO ₃)	20.0	0.400	21.0	0.420	21.0	0.420	22.0	0.440
Sulfate (504)	7.0	0.146	6.0	0.125	0.9	0.125	0.9	0.125
Chloride(C1)	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
ΣCations ≈	0.	0.821	0	.561	0	0.836	0	.870
EAnions =	0.	.658	0	.658	0.0	.658	0	0.678
% Difference =	10.0	0	7	6.	12.(12	4
Hardness =	27.0	0	14	14.0	28.0		29.	0

TABLE 0-1b
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUI
JOR IONIC SPECIES BALANCE AND TOTAL HARDNESS
DHASE T CYCLE A BIG 14-17, 1978

Ionic Species	Stat	Station 08	Stat	Station 09	Stat	Station 09	Station	ion 10
	MQ/	l me/l	1/6m	me/1	[/6m	me/1	m9/1	me/l
Calcium (Ca)	4.4	0.220	7.3	0.364	9.9	0.329	5.2	0.259
Harnes ium (ma)	2.9	0.238	2.7	0.222	2.7	0.222	3.2	0.263
Potassium (K)	7	0.036	1.4	0.036	1.4	0.036	1.6	0.410
Sodium (Na)	5.20	0.226	4.27	0.186	3.97	0.173	4.33	0.188
-	22.0	0.440	21.0	0.420	21.0	0.420	19.0	380
Sulfate (504)	5.0	0.104	6.0	0.125	5.0	0.104		0.104
7 45	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
stations =		720	0	.808	0	0.760	0	0.752
ranions =		1 1	0	0.658	0	0.637	0	0.597
9 Difference =		4.6	101	10.2	ω	8.8		11.5
Hardness =	22	22.0	28	28.0	27	27.0	25	25.0
						- 1		ľ
Tonic Species	Station	10n 11	Station	ion 11	Station	10n 12	Station	10n 13
	/bw	1/am	L/bm	me/l	L/6m	me/I	l/gm	me/I
Calcium (Ca)	5.2	0.259	5.0	0.250	9.6	0.479	10.9	0.544
Manney Lim (mo)	2.4	0.197	2.7	0.222	0.2	0.016	3.5	0.288
	1-	0.033	1.6	0.041	0.1	0.03	Ol	0.023
Sodium (Na)	4.0	0.174	4.47	0.194	1.15	0.050	3.13	0.136
Alkalinity (CaCO2)	29.0	•	20.0	0.400	32.0	0.640	45.0	0.9
Sulfate (SOA)	5.0	0.104	5.0	0.104	1.0	[0.021]	2.0	0.042
Chloride (C1)	4.0	0.113	4.0	0.113	3.0	0.085	4.0	0.113
rfations =		O 664		707		0.548	0	.991
EATIONS =		0.797	0	0.617	5	0.745		.054
2 Difference =		9.1	9	6.8	15	5.3		3.1
Hardness =	2	22 O	23	23.0	77	24.0	46	46.0
שמותושא י	77	n*,	3	7.				1

TABLE 0-1C
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE I CYCLE 4. AUG. 14-17, 1978

Ionic Species	Stat	Station 13	Stat	Station 14	Stat	Station 15	Stat	Station 15
	1/6m	me/1	l/gm	me/1	1/6m	me/1	1/2m	me/I
Calcium (Ca)	11.6	0.579	13.7	0.684	10.8	0.539	10.4	0.519
Magnes tum (mg)	3.6	0.256	1.2	0.09	7.5	0.617	7.3	0.600
Potassium (K)	6.0	0.023	9.0	0.015	1.1	0.028	1.1	0.028
Sodium (Na)	3.07	0.134	1.45	0.063	3.27	0.142	3.27	0.142
Alkalinity (Caco ₂)	46.0	0.520	48.0	0.960	40.0	0.800	42.0	0.840
Sulfate (50g)	1.0	0.021	3.0	0.062	<1.0	0.021	2.0	0.042
Chloride (Ci	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
ECations "	1	.031	0	1,861	1.	326	1.289	39
EAntons	1	.054	1	.135	0.0	934	0.994)4
% Difference =		-1	13	8	17.	4	12.9	
Hardness =	42	42.0	38	0.	56.	0	54.0	

Tonic Species	Stat	Station 16	Stat	Station 17	Stat	Station 18	Stat	Station 19
•	1/6m	L/am	L/bm	me/1	T/gm	me/T	l/6m	l me/l
Calcium (Ca)	6.4	0.319	6.2	0.309	13.0	0.649	15.3	0,763
Magnesium (mg)	1.6	0.132	1.6	0.132	2.5	0.206	2.8	0.230
Potassium (K)	1.1	0.028	1.2	0.031	1.1	0.028	1.1	0.028
Sodium (Na)	3.30	0.144	3.30	0.144	3.87	0.168	3.59	0.156
Alkalinity (CaCO ₂)	25.0	0.500	25.0	0.500	33.0	0.660	38.0	0.760
Sulfate (504)	3.0	0.062	2.0	0.042	5.0	0.104	4.0	0,083
Chloride(Cl)	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
∑Cations =	0	0.623	0.615	5	1.051	51	11.	178
EAnions =	0	.675	0.654	34	0.877	77	0	.956
% Difference =	4.	.1	3.090	06	9.0		10.4	4
Hardness =	22.0	0	21.0		41.0		48.0	0

TABLE 0-2a
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE I, CYCLE 6, NOV. 28-30, 1978

Total Capador	C+2+100	0 00	Station	ion 02	Station	ion 03	Station	on 04
Toute species	/oЩ	18	1/bm	me/1	1/6m	me/1	1/6m	me/1
(2)	2	150	8	0.190	4.3	0.215	3.9	0.195
۲Ľ	7-	000		060 0	1.2	0.099	1.2	0.099
Padries I uni	7.6	0.020	23	0.059	2.2	0.036	2.2	0.056
COLD THE WAY	20.5		4 .	0.249	5.55	0.241	5.55	0.241
ATESTINET (Carles)	16.0		16.0	0.320	16.0	0.320	16.0	0.320
Cit 63+6 (Cha)	0.4	9	oi '	0.146	7.0	0.146	7.0	ં .ા
Sulface (2)	3.0		5.0	0.141	5.0	0.141	5.0	0.141
		566	0	588	0.0	611	0.59	
STATIONS IN		550		607	0.	.607	0.607	
2 01 1013 9 01 66 march =		4		9	0	4	1.3	
יונגו "ענו	12.0	C	13	0	15.0	0	14.0	
nar uness								
20,000,000	Station	ion of	Station	ion 06	Station	ion 07	Station	10 not
Touric observes	Ma/	12	1/bm		1/6m	me/l	L/6m	me/l
(5)	0 <	0.240	4.0	0.200	5.9	0.294	5.4	0.269
۲17		701.0	2.8	0.148	1.3	0.107	•	0.115
7	113	0.566	2.4	0.061	2.8	0.072	2.8	0.072
- 1	10.00	0.474	10.00	0.435	12.40	0.539	12.70	0.552
3001 UIII 1107	26.0	0.520	26.0		29.0	0.580	31.0	0.620
72	12.0	0.250	11.0	0.229		- 1	٠.	•
Chlorido (11)			5.0	0.141	5.0	0.141	5.0	0.141
41	41		C	0 844	1.0	012	1.0	600
اہ،	•;	/0/2		Voo	0	991	1.0	11
EAnions =	3.0	854	3	020	•1	4,	0	
% Difference =	7	9	7	0	10.01		18.0	
Hardness =		0			•		• •	

TABLE 0-2b
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE I, CYCLE 6, NOV. 28-30, 1978

Ionic Species	Stat	Station 08	Stat	Station 09	Stat	Station 09	Stat	Station 10
	T/gm	me/1	T/gm	me/T	1/6m	me/1	l/gm	me/1
Calctum (Ca)	.5.1	0.254	5.9	0.294	6.9	0.344	5.0	0.250
Magnesium (mg)	1.3	0.107	1.2	0.099	1.3	0.107	1.3	0.107
Potassium (K)	2.8	0.072	2.5	0.064	2.5	0.064	2.4	0.061
Sodium (Na)	13.40	0.583	8.59	0.374	9.48	0.412	8.05	0.350
Alkalinity (CaCO ₃)	33.0	0.660	31.0	0.620	30.0	0.600	25.0	0.500
Sulfate (SO ₄)	15.0	0.312	11.0	0.229	11.0	0.229	8.0	0.166
Chloride (Cl)	5.0	0.141	4.0	0.113	4.0	0.113	0.9	0.169
εCations =		1.016	0	0.831	0.928	128	0.768	88
EAnions =	1.	1.113	0	0.962	0.942	142	0.836	98
1 Difference =	4.	9	7.	3	0.752	52	4.2	
Hardness =	17.	0.7	19	0	22.0	(17.0	

Ionic Species	Stat	Station 11	Stat	Station 11	Stat	Station 13	Stat	Station 13
	L/bm	me/1	L/6m	me/1	[/bm	l we/l	L/6w	me/l
Calcium (Ca)	8.3	0.414	8.2	0.409	15.1	0.753	15.8	0.788
Magnesium (mg)	1.2	0.099	1.3	0.107	1.2	0.099	1.2	0.099
Potassium (K)	2.1	0.054	2.1	0.054	1.0	0.026	0.9	0.023
Sodium (Na)	7.98	0.347	7.95	0.346	4.01	0.174	4.15	0.181
Alkalinity (CaCO ₃)	137.0		35.0	0.700	59.0	1.180	59.0	1.18
Sulfate (SO4)	8.0	0.166	8.0	0,166	4.0	0.083	5.0	0.042
Chloride(Cl)	6.0	0.169	5.0	0.141	6.0	0.169	5.0	0.141
ΣCations =	0	0.914	0.6	.916	1.	.052	1.(. 091
EAnions =	1	.076	1.0	770	1.	. 432	1.	363
% Difference =	8		4.8	8	15.	3	11.	
Hardness =	25.0	0.	25.0	(41	0	43.	C

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES PHASE I, CYCLE 6, NOV. 28-30, 1978 TABLE 0-2c

				36	Ctation	ion 15	Stati	Station 16
Ionic Species	Station	71 I4	Station	CT	300			1
	/bw	me/1	l/bm	me/1	mg/1	me/ I	1/6W	116/1
(-1)	6	0.793	17.8	0.888	14.4	0.719	13.6	9.679
נמונות רמ	十	970	1.2	0 000		0.000	0.9	0.074
Magnes 1 um (mg)	+	010	3.0	0.023	1.0	0.026	0.8	0.020
Potassium (n)	\ <u> </u>	0.010	A 29	0 187	4.22	0.184	3.94	0.171
NATE TENT (CACOL)	┷	1 280	53.0	1.060	53.0	1.060	53.0	1.060
12	╁	0 125	3.0	0.062	3.0	0.062	2.0	0.042
Chloride (C1)	十	0.085	5.0	0.141	6.0	0.169	4.0	0.113
	tle	10	1 1	197		018	0.944	4
2.car.10ns =	0.5	780		263	1	.292	1.214	4
2.An 10ms =		60		2	-	~	12.5	
% Difference =	23.7				000		36.0	
Hardness =	41.0		0./4		33).		
			12.43	100000	(+3	C+a+ion	Station	ion
Ionic Species	Station	On 1/	Stat	0]	3,7		1/52	
•	L/bm	me/1	mg/1	me/I	- /6E	lle/I	7/5111	1/2
Calcium (Ca)	16.3	0.813	14.2	0.789				
Magnes ium (mg)	6.0	0.074	1.3	0.107				
1	1.0	0.026	1.6	0.041				
Sodium (Na)	4.40	0.191	6.26	0.272				
Alkalinity (CaCOs)	55.0	1.100	47.0	0.940		-		
12	2.0	0.042	1.0	0.021				
Chloride (C1)	6.0	0.169	5.0	0.141				

129

1.104

7 39.0

1.311

Difference = Hardness =

ECations =

TABLE 0-3a
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 1, FEB. 19-22, 1979

		C+++400 01	Stat	Station 02	Stat	Station na	Stat	Station 04
Toute species		I/em	/ow	me/1	1/6m	me/T	1/6m	me/1
		300 0	7 7	0 215	4.8	0.240	4.9	0.245
31	2	V. 553		0.15	7	0.115	1.4	0.115
Magnes ium (mg)	***	N. 113	7.6	0.064	2.3	0.059	5.6	0.067
=1	, or	0.213	200	0.218	5.90	0.257	7.70	0.335
Sodium (Na)		0.220	12.0	0.240	12.0	0.240	14.0	0.280
Alkalinicy cacos	26	0.146	7.0		7.0	0.146	9.0	0.187
Chlorida (Cl)	5.0	0.141	4.0		5.0	0.141	5.0	0.141
	C	612	0.61	1	0.670	0/	0.76	
tractions =		507	0.498	8	0.527	7	0.608	89
TAN DUST		Y	•		12.0		11.2	
Northerence -	16.	0	16.0		17.0		17.0	
								- 1
Contr Checies	Stat	Station 05	Station	10n 06	Station	ion 07	Station	10n 08
	L/bm	me/I	1/bm	me/T	L/6m	me/1		a
Calodian (Ca)	5.7	0.284	5.0	0.250	7.4	0.369	7.1	0.354
Washer Lim (mo)		0.115	1.4	0.115	1.3	0.107	1.3	0.107
Dotace Time K	26	0.067	2.3	0.059	1.1	0.028	1.8	0.046
Sodium (Na)	8.80	0.383	8.30	0.361	5.20	0.226	7.50	
17	19.0	0.380	15.0	0.300	33.0	0.660		•
dě	12.0	•	11.0	0.229	9.0	0.187	12.0	٠٦
Chloride (Cl)	4.0		5.0	0.141	7.0	0.197	0.9	0.169
* 340,000	115	DA0	0.7	0.785	0.7	06	0.833	13
Chatter a		- 25	0	1.670	1.045	5	1.019	6
Williams	4		6.4		17.7		10.0	
A 01 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.0		18.0		23.0		22.0	
naroness =		7	?					

TABLE 0-3b
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 1, FEB. 19-22, 1979

Ionic Species	Stat	Station 05	Stat	Station 10	Stat	Station 11	Sta	Station 12
	/bш	me/T	T/gm	me/1	L/6m	me/1	1/6m	l/au
Calcium (Ca)	5.0	0.250	4.6	0.230	6.2	0.30	11.5	0.574
Magnes ium (mg)	1.4	0.115	1.4	0.115	1.2	0.09	1.1	0.090
Potassium (K)	2.2	0.056	2.2	0.056	1.6	0.041	1.3	0.033
Sodium (Na)	7.50	0.326	7.10	0.309	5.30	0.231	3.70	0.161
Alkalinity (CaCO2)	23.0		24.0	0.480	27.0	0.540	40.0	008.0
6	9.0	0.187	10.0	0.208	2.0	0.042	2.0	0.042
Chloride (Ci)	3.0	0.085	6.0	0.169	4.0	0.113	4.0	0.113
ECations =	0.7	.747	0.710	10	0.680	980	0.8	0.859
EAnions =	0.0	.731	0.852	52	0.694	94	0.0	0.954
% Difference =	0.1		9.4		1.1		5.	~
Hardness =	18.0		17.0		20.0		32.0	
					k			

Ionic Species	Stat	Station 13	Stat	Station 14	Stat	Station 15	Stat	Station 16
	mg/1	me/1	L/bw	me/1	1/6m	me/1	L/6m	me/1
Calcium (Ca)	7.3	0.364	20.8	1.038	8.1	0.404	10.9	0.544
Magnesium (mg)	1.1	0.000	0.8	990.0	1.1	0.000	1.1	060.0
Potassium (K)	1.4	0.036	9.0	0.015	1.4	0.036	1.6	0.041
Sodium (Na)	2.60	0.113	3.40	0.148	2.70	0.117	3.00	0.131
Alkalinity (CaCO ₂)	24.0	0.480	78.0	1.560	31.0	0.620	36.0	0.720
Sulfate (SOA)	4.0	0.083	1.0	0.021	4.0	0.083	4.0	0.083
Chloride(Cl)	6.0	0.169	5.0	0.141	6.0	0.169	7.0	0.197
ECations =	0	0.604	1	.267	0	0.648	o	0.806
EAnions =	0	0.732		722	0.	872	1.	001
% Difference =	6	9.6	15.	2	14.8	8	10.	89
Hardness *	. 22	0	53.	0	24.	0	30.	0

TABLE 0-3c
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 1, FEB. 19-22, 1979

							4-47	90
Ionic Species	Stat	Station 17	Stat	Station 18	Stat	Station 19	Station	5
•	mg/l	me/1	L/bw	me/l	mg/1	me/l	1/6w	1
Calcium (Ca)	10.8	0.539	6.3	0.314	6,4	0.319		
Magnes jum (mg)	1.0	0.082	1.3	0.107	1.4	0.115		
Potassium (K)	1.2	0.031	1.7	0.044	1.8	0.046		
Sodium (Na)	2.10	0.091	5.00	0.218	5.40	0.235		
Alkalinity (CaCOs)	37.0	0.740	26.0	0.520	25.0	0.500		
15	4.0	0.083	6.0	0.125	6.0	0.125		
Chloride (C1)	2.0	0.141	4.0	0.113	4.0	0.113		
xCations =		743	9.0	82	0	715		
Manions =	0	964	0.7	758	0	738		
% Difference =	12.9	6	5.2		1.5	5		
Hardness =	30.0	0	20.0		21.0	0		
Ionic Species	Station	lon	Station	ion	Station	tion	Station	10n
	l/bm	me/1	mg/1	me/1	T/gm	me/1	L/bm	Te/I
Calcium (Ca)								
Magnesium (mg)								
Potassium (K)	-							
1								
Alkalinity (CaCO ₂)								
2								
Chloride(Cl)								
ECations =								
EAniens =								
% Difference =								
Hardness =								

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUR

9 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						50	1	
Long Species	Stat	station UI	Stat	station U2	Stal	Station US	Stat	Station 04
	L/bu	me/T	L/6m	me/1	l/gm	me/l	L/gm	me/]
Calcium (Ca)	3,7	0.185	4.1	0.202	4.2	0.210	3.8	0.190
Magnesium (mg)	1.5	0.123	1.6	0.132	1.5	0.123	1.4	0.115
Potassium (K)	1.9	0.049	2.0	0.051	1.9	0.049	2.0	[0.051]
Sodium (Na)	5.90	0.25/	5.00	0.218	5.00	0.218	5.80	0.252
Alkalinity (CaCO ₂)	17.0	0.340	18.0	0.360	22.0	0.440	12.0	0.240
Sulfate (SO ₄)	4.0	0.083	4.0	0.083	5.0	0.104	5.0	0.104
Chloride (Ci)	4.0	0.113	4.0	0.113	4.0	0.113	4.0	0.113
ΣCations =	0.	0.613	0.605	5	0.599	99	0.608	8
EAnions =	0.	536	0.556	9	0.657	57	0.457	7
% Difference =	9	6.72	4.2		4.6		14.2	
Hardness =	15.0	0	16.0		16.0		15.0	

Ionic Species	Stat	Station 05	Stat	Station 06	Stat	Station 07s	Sta	Station 07b
	1/6m	l/am	1/6m	me/T	1/bm	me/1	1/6m	l/am
Calcium (Ca)	4.0	0.200	7.3	0.364	8.8	0.439	4.9	0.245
Magnesium (mg)	1.4	0.115	1.6	0.132	1.6	0.132	1.5	0.123
Potassium (K)	1.9	0.049	2.0	0.051	2.0	0.051	1.8	0.046
Sodium (Na)	8.70	ľ	7.70	0.335	4.00	0.174	3.50	0.152
Alkalinity (CaCO ₂)	26.0	0.520	24.0	0.480	32.0	0.640	34.0	0.680
Sulfate (SO4)	8.0	0.166	0.9	0.125	6.0	0.125	7.0	0.146
Chloride(Cl)	5.0	0.141	4.0	0.113	5.0	0.141	4.0	0.113
ΣCations =		0.742	0.8	182	0.796	6	0.566	99
EAnions =		0.827	0.718	18	906.0		0.938	38
% Difference =	G)	5.46	10.3		4.46		24.7	
Hardness =	15	15.0	24.0		27.0		18.0	

TABLE 0-4b
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 5, AUG. 13-16, 1979

Year Creater	C+++10n 09	Station 09c	Station 09b	Station 10s	n 10s
Sacsade Stude	mg/1 me/1	ΙĒ	164	1/bm	me/
Calcium (Ca)	r.	5.0 0.250	4.7 0.235	5.9	0.294
Mary Can	2	5	1.5 0.123	1.6	0.132
	c	0	1.8 0.046	2.1	- 4
COLLINE (NA)	0	80	6.50 0.283	7.50	-
- T'-		0	27.0 0.540	27.0	
15	0	6.0	5.0 0.104	્ન	7
	0	0.	4.0 0.113	4.0	0.113
TCations =	0.801	0.763	0.687	-	
EAntons =	0.849	0.778	0.757	0.757	
4 Difference =	2.95	9.28	4.86	3,15	
Hardness =	22.0	18.0	17.0	20.0	
				27.72	
Tonic Species	Station 10b	Station 11s	Station 11b	Station	1
	1/am 1/bm	mg/1 me/1	mg/1 me/1	1 /6W	19
Calcium (Ca)	5.8 0.289	8.4 0.419	ં ₹	10.5	0.524
Magnes i um (mg)	5	1.6 0.132	• •		-
Τ	o		•	0.2	
Sodium (Na)	•	9	90	-	200.0
Alkalinity (CaCO ₃)	0	9	o k	3/.75	-
Sulfate (SOA)	0.08	0.0	5.0 0.104	٠.	1900
Chloride(Cl)	4.0 0.113	4.0 0.113	3.0 0.055	3.0	20717
ECations =	0.766	0.840	0.767	0.685	
EAnions *	0.736	0.776	0.729	0.845	
% Difference =	1.99	3.98		•1	
Hardness =	20.0	26.0	23.0	30.0	

TABLE 0-4c
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALU
PHASE II. CYCLE 5, AUG. 13-16, 1979

Ionic Species	Stat	Station 13s	Station	10n 13b	Stat	Station 14	Stal	Station 15s
	mg/1	me/1	[/b̃ш	me/1	L/bш	me/1	[/bw	me/1
Calctum (Ca)	17.6	0.878	17.5	0.873	32.3	1.61	18.0	0.898
Magnestum (mg)	1.4	0.115	1.5	0.123	0.8	0.066	1.5	0.123
Potassium (K)		0.028	1.3	0.033	0.5	0.013	1.2	0.031
Sodium (Na)	3.70	0.161	4.00	0.174	2.40	0.104	3,70	0.161
t=	61.0	1.22	63.0	1.260	101.0	2,020	64.0	1.280
Selfate (SOA)	1:0	0.021	1.0	0.021	<1.0	<0.021	2.0	0.042
l asl	4.0	0.113	4.0	0.113	3.0	0.085	4.0	0.113
ECations =	1.	182	1.203	3	1.79	13	1.213	3
ΣAnions *		354	1.394	4	2.126	9	1.434	
% Difference =	9	.75	7.31		8.50	١	8.36	
Hardness =	48	0	48.0				49.0	
								- 6
Ionic Species	Station	ion 15b	Station	ion 16	Station	10n 17	Stal	Station 18
	mg/T	me/T	L/bm	me/1	[/bm	me/1	1/6m	me/l
Calcium (Ca)	19.7	0.983	16.9	0.843	18.3	0.913	8.4	0.419
Magnesium (mg)	1.7	0.140	1.3	0.107	1.2	0.099	1.9	0.156
Potassium (K)	1.4	0.036	1.3	0.033	1.3	0.033	2.1	0.054
Sodium (Na)	4.70	0.204	4.20	0.183	4.50	0.196	7.40	0.322
Alkalinity (CaCO ₂)	63.0	1.260	63.0	1.260	63.0	1.260	36.0	-4
Sulfate (SOA)	1.0	0.021	1.0	0.021	2.0	0.042	5.0	0.104
Chloride(Cl)	5.0	0.141	5.0	0.141	4.0	0.113	4.0	0.113
ECations =		363	1.1	166	1.2	241	0.95	
ΣAn: ons =		422	1.4	.422	1.4	414	•	
% Difference =	2.	11	9.88	8	6.5	54		
Hardness =	54.0	0	46.0		49.0		28.0	

LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 5, AUG. 13-16, 1979

Ionic Species	Station	ton 19	Station	ion	Station	ion	Station	ion
	mg/1	me/T	/6m	me/1	l/gm	me/1	T/pm	me/1
Calcium (Ca)	7.6	0.379						
Magnesium (mg)	1.5	0.123						
Potassium (K)	1.7	0.044						
Sodium (Na)	6.00	0.261						
+	37.0	0.740						
Sulfate (SO ₄)	2.0	0.104						
Chloride (C1)	4.0	0.113						
ΣCations =	0.807	07						
EAnions =	0.957	57						
% Difference =	8.4	6	·					
Hardness =	24.0							
Ionic Species	Station	ion	Station	lon	Station	ion	Station	lon
	1/6 m	me/T		me/1	1/pm	me/T	l∕6m	me/T
Calcium (Ca)								!
Magnesium (mg)								
Potassium (K)								
+								
Sulfate (504)								
Chloride(Cl)								
ΣCations =								
£Anions =								
% Difference =								
Hardness =								

LAKE SEMINOLE WATER QUALITY MANAGEMENT STU OR IONIC SPECIES BALANCE AND TOTAL HARDNESS PHASE IT CYCLE 7 DEC 3-6 1979

Lonic Species	Stat	Station 01	Stat	Station 02	Stat	Station 03	Sta	Station 04
	T/gm	me/1	L/bm	me/ī	T/gm	me/T	[/bw	me/1
Calcium (Ca)	2.6	0.130	3.2	0.160	2.9	0.145	2.8	0.140
Magnesium (mg)	1.2	0.099	1.0	0.082	1.2	0.099	1.3	0.107
Potassium (K)	2.1	0.054	2.4	0.061	2.2	0.056	2.3	0.059
Sodium (Na)	5.90	0.257	4.50	0.196	4.40	0.191	6.70	0.291
Alkalinity (CaCO ₂)	16.0	0.320	15.0	0.300	16.0	0.320	17.0	0.340
Sulfate (SOA)	6.0	0.125	6.0	0.125	7.0	0.146	8.0	0.166
Chloride (Ci)	4.0	0.113	5.0	0.141	5.0	0.141	5.0	0.141
<pre>£Cations =</pre>	0	0.539	0.499	661	0.491	1	0.597	37
£Anions =		.558	0.566	99	0.606	9(0.647	17
% Difference =		.7	6.3		10.5		4.06	
Hardness =	11	0	12.0		12.0	ĺ	12.0	

Tonic Species	teta 1	Station of	Stat	Station of	Stat	Station 07	Stat	Station 08
	/bш	L/au	1/bm	me/T	I/bm	me/T	T/gm	lme/1
Calcium (Ca)	2.4	0.120	2.9	0.145	5.5	0.27	2.3	0.115
Magnesium (mg)	1.3	0.107	1.4	0.115	1.0	0.082	1.1	0.000
Potassium (K)	2.2	0.056	2.1	0.054	2.1	9.054	2.1	0.054
Sodium (Na)	7.00	ı	6.50	0.283	7.20	0.313	5.80	0.252
Alkalinity (CaCO ₂)	18.0	1	19.0	0.386	18.0	ე.360	18.0	0.360
Sulfate (504)	10.0	0.208	8.0	0.166	9.0	0.187	9.0	0.182
Chloride(Cl)	5.0	0.141	4.0	0.113	5.0	0.141	5.0	0.141
<pre>ECations =</pre>	0.	0.587	0.596	96	0.7	24	0.51	
EAnions =	0	0.709	0.6	. 659	0.0	. 688	0.688	88
% Difference *	9.	4	[5.0	Ţ	2.5		14.8	
Hardness =	 -	c	12.0		17.0		10.0	

TABLE 0-5b LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES PHASE II, CYCLE 7, DEC. 3-6, 1979

Tonde Species	Station	ion 09	Station	ton 10	Stat	Station 11	Station	ion 12
	/OW		/DW	me/1	I/bw	те/т	L/6w	me/1
	•	0 116	,		3,6	0 100	0 81	808
Calcium (Ca)	?;	0.11.0	45	חפרים	3.5	307.7		
Magnes um (mg)	1.1	0.090	1.4	0.115	7.7		Q n	4
Γ	2.3	0.059	2.1	0.054	1.9	0.049	0.8	-4
Sodium (Na)	5.70	0.248	06.9	0.300	5.80	0.252	3.60	0.157
T	20.0	0.400	19.0	0.380	22.0	0.440	44.0	0.880
18	C	0.187	0	0.166	8.7	0.166	<1.0	<0.021
1	3.0		4.0	0.113	5.0	0.141	3.0	0.085
TCations #	O	512		.629	0.579	6	1.14	
74n10ne a		672		0.659	0.74	747	0.985	5
Thi Fference =	=	2		2.37	12.7		7.2	
Hardness =	19	0		3.0	13.0		46.0	
Jonic Species	Stat	Station 13	Station	10n 14	Station	ion 15	Station	10n 16
	√gm		1/bm	[me/]	L/bw	me/l	1/6m	7
Calctum (Ca)	19.7	0.634	35.0	1,750	10.4	0.519	7.2	ი. 359
Magnes um (mg)		0.000	9.0	0.049	1.2	0.099	1.0	0.082
Т		0.033	0:1	0.026	1.6	0.041	1.6	0.041
Sodium (Na)	3.70		4.80	0.20	4.10	0.178	3.30	
Alkalinity (CaCO2)	60.0	1.200	100.0	2.000	40.0	0.800	35.0	9,78
Sulfate (504)	2.0	0.042	4.0	0.083	3.0	0.062	3.0	0.762
Chloride (C1)	4.0	0.113	3.0	0,085	5.0	0.141	5.0	0.141
reations =		918	2.	030	0	0.837	0.	626
EAntons =		354	2.	168	1	003	0	0.903
% Difference =	19	•	3.	3	9.0	0	18.	
Hardness *	35	35.0	86.	0	30.	0	21.	a

TABLE 0-5c
LAKE SEMINOLE WATER QUALITY MANAGEMENT STUDY
MAJOR IONIC SPECIES BALANCE AND TOTAL HARDNESS VALUES
PHASE II, CYCLE 7, DEC. 3-6, 1979

Ionic Species	Station 17	Station 18	Station 19	Station
	mg/1 me/1	mg/1 me/1	mg/1 me/1	/aw 1/6w
Calcium (Ca)	7.2 0.359	8.7 0.434	7.5 0.374	
Magnesium (mg)	┞	3	1.3 0.107	
Γ	6.	2.0 0.051		
Socium (Na)	3.20 0.139	4.70 0.204	4.30 0.187	
Alkalinity (CaCO ₂)	L		35.0 0.700	
Sulfate (SO ₄)	2.0 0.042	5.0 0.104	5.0 0.104	
Chloride (Ci)	5.0 0.141	4.0 0.113	4.0 0.113	
ECations =	0.621	0.797	0.717	
EAntons =	0.883	0.957	0.917	
% Difference =	17.4	9.1	12.2	
Hardness =	21.0	25.0	23.0	
Ionic Species	Station	Station	Station	Station
	mg/l me/l	mg/1 me/1	mg/l me/l	/au l/bm
Calctum (Ca)				
Magnestum (mg)				
Potassium (K)				
Sodium (Na)				
Sulfate (SO4)				
(Chloride(Cl)				
<pre>ECations =</pre>				
EAnions =				
% Difference *				